Self Diagnosis Supported model

SERVICE MANUAL

AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX64B	RM-932	FR	SCC-Q83D-A	KV-29FX64E	RM-932	ESP	SCC-Q81C-A

FD Trinitron

KV-29FX64

RM-932

TRINITRON ® COLOR TV

SONY ®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

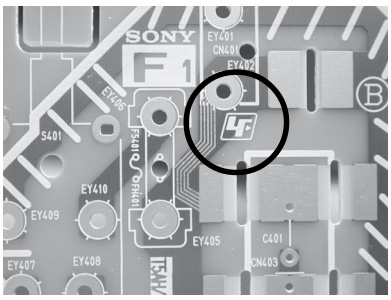
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.

example 1



example 2

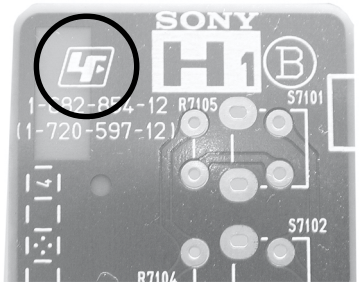


Table 1

Board	Function
C	R,G,B Out
F4	Power Switch/Fuse
H1	LED/ IR Receiver
H2	Front AV/ Headphone

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

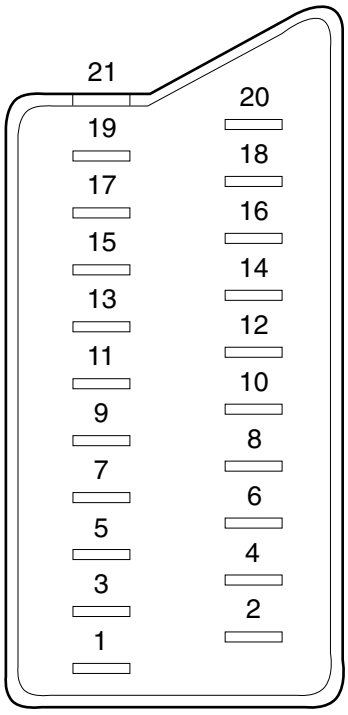
For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12, S01-S03, F2-F10 , B-Q UHF : E21-E69, F21-F69, B21-B69 CABLE TV : S1-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R01-R12, S01-S03 UHF : E21-E69, R21-R69 CABLE TV : S1-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	FD Trinitron Approx 72 cm (29 inches) (Approx 68 cm picture measured diagonally) 104 degree deflection	**Sound Output**	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Subwoofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		**General Specifications**	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	130W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Dimensions	Approx 771x585x506mm
		Weight	Approx 50kg
Phono Jacks	Output Connectors variable for Audio Signals	Supplied Accessories	RM-932 Remote Commander (1) IEC designated R6 battery (2)
		Other Features	100 Hz picture, TV system Autodetection, Teletext, Smartlink, BBE, Virtual Dolby
Input/Output Terminals [SIDE]		**Remote control system : Infrared control**	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

Model Name Item	KV-29FX64B	KV-29FX64E
Pal Comb	OFF	OFF
PIP	OFF	OFF
RGB Priority	ON	ON
Woofer Box	ON	ON
Scart 1	ON	ON
Scart 2	ON	ON
Scart 3	OFF	OFF
Front in (4)	ON	ON
Projector	OFF	OFF
AKB in 16:9 mode	OFF	OFF
Norm B/G	ON	ON
Norm I	ON	OFF
Norm D/K	ON	ON
Norm AUS	OFF	OFF
Norm L	ON	OFF
Norm SAT	OFF	OFF
Norm M	OFF	OFF
Teletext	ON	ON
Nicam Stereo	ON	ON

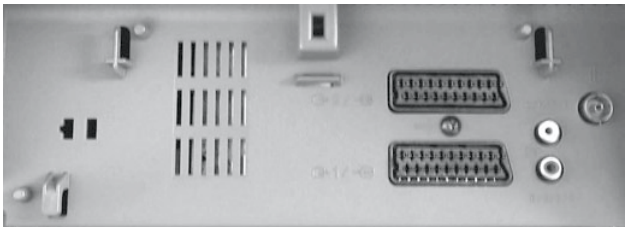
21 pin connector



Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Side Connection Panel

S-Video socket

S Video socket pin configuration		
Pin No	**Signal**	**Signal Level**
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

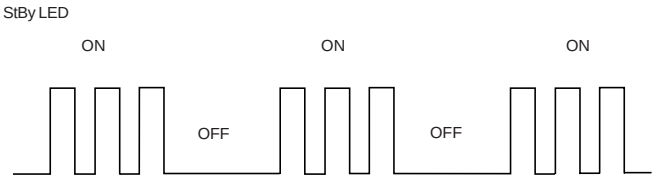
AE-6B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6B chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method.
Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3



How to enter into Table 2

1. Turn on the main power switch of the TV set.
2. Program Remote Commander for Operation in Service Mode. [See Page 21].
3. Press ‘VIDEO’ ‘VIDEO’ > ‘MENU’ on the Remote Commander.
4. Using the Remote Commander, Scroll to the ‘Error Menu’ item using the down arrow key, then press the right arrow key.
5. The following table will be displayed indicating the error count.

Table 2

ERROR MENU

E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0

WORKING TIME

HOURS	14
MINUTES	7

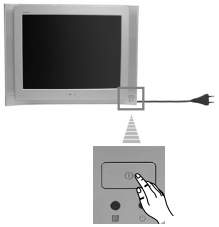
Note: To clear the error count data press ‘80’ on the Remote commander.

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

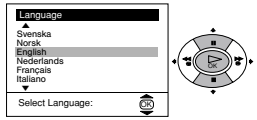
Einschalten und automatische Feinabstimmung des Fernsehers

Beim erstmaligen Einschalten des Fernsehers erscheinen einige Menüreihenfolgen auf dem Bildschirm, mit denen Sie folgende Einstellungen vornehmen können:
1.) die Menüsprache auswählen, 2.) das Land auswählen, in dem Sie das Gerät einsetzen, 3.) Einstellen der Bild- Schräge, 4.) alle vorhandenen Kanäle (Fernsehsender) suchen und automatisch speichern, und 5.) die Reihenfolge des Erscheinens der Kanäle (Fernsehsender) auf dem Bildschirm ändern.
Wenn Sie jedoch später einige dieser Einstellungen ändern müssen, können Sie dies tun, indem Sie in (Menü Grundeinstellungen) auswählen oder die Taste Neustart des Fernsehers drücken.

1 Stecken Sie den Stecker des Fernsehers in die Steckdose (220-240 V Wechselstrom, 50 Hz). Beim erstmaligen Anschluss des Fernsehgerätes, schaltet sich dieser automatisch ein. Falls dies nicht der Fall ist, drücken sie die Einschalt- / Ausschalttaste an der Vorderseite Ihres Fernsehgerätes, um es einzuschalten.
Beim ersten Mal, wenn Sie das Fernsehgerät einschalten, erscheint auf dem Bildschirm automatisch das Menü **Language** (Sprache).



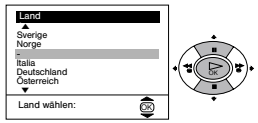
2 Drücken Sie die Taste ▼ oder ▲ , um die Sprache auszuwählen. Anschließend drücken Sie die Taste **OK**, um die Auswahl zu bestätigen. Ab diesem Moment erscheinen alle Menüs in der ausgewählten Sprache.



DE

3 Auf dem Bildschirm erscheint automatisch das Menü **Land**. Drücken Sie auf die Taste ▼ oder ▲ , um das Land auszuwählen, in dem Sie den Fernseher benutzen wollen. Anschließend drücken Sie die Taste **OK**, um die Auswahl zu bestätigen.

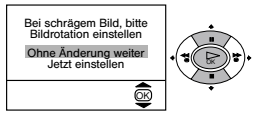
Wenn das Land in dem Sie den Fernseher benützen wollen nicht auf der Liste erscheint, wählen Sie "-", anstatt eines Landes.



4 Auf Grund des Erdmagnetismus kann das Bild u. U. schief erscheinen. Es kann in solch einem Fall neu eingestellt werden mit Hilfe des Menüs **Bildrotation**.

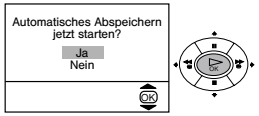
a) Wenn dies nicht notwendig ist, drücken Sie ▼ oder ▲ , um **Ohne Änderung weiter** auszuwählen und drücken Sie **OK**.

b) Falls dies notwendig ist, drücken Sie ▼ oder ▲ , um **Jetzt einstellen** auszuwählen und drücken Sie **OK**. Anschließend korrigieren Sie die Bild- Schräge, indem Sie sie durch Drücken der Tasten ▼ oder ▲ zwischen –5 und +5 einstellen. Am Schluss drücken Sie **OK** zum Speichern.

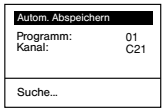


wird fortgesetzt...

5 Das Menü Automatisches Abspeichern erscheint auf dem Bildschirm. Drücken Sie die Taste **OK**, um **Ja** auszuwählen.

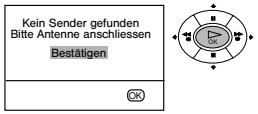


6 Der Fernseher beginnt mit der Feinabstimmung und der automatischen Speicherung aller Kanäle (Fernsehsender), die zur Verfügung stehen.

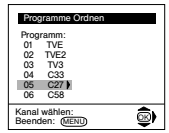


Dieser Prozess kann einige Minuten in Anspruch nehmen. Haben Sie Geduld und drücken Sie während der Dauer des Prozesses der Feinabstimmung keine Tasten, oder im gegenteiligen Falle würde er nicht beendet.

Wenn der Fernseher keinen Kanal (Fernsehsender) gefunden hat nach dem automatischen Abspeichern, erscheint eine Mitteilung auf der Bildfläche, die Sie darum bittet, die Antenne anzuschließen.. Schließen Sie sie bitte so an, wie auf der Seite 6 dieses Handbuchs angegeben ist, und drücken Sie **OK**. Der Prozess des automatischen Abspeicherns beginnt aufs Neue.



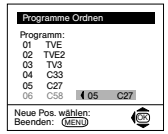
7 Nachdem der Fernseher alle Kanäle (Fernsehsender) feinabgestimmt und gespeichert hat, erscheint automatisch auf dem Bildschirm das Menü **Programme Ordnen**, damit Sie die Reihenfolge wie die Kanäle auf dem Bildschirm erscheinen ändern können.



a) Wenn Sie die Reihenfolge der Kanäle nicht ändern wollen, gehen Sie weiter zu Schritt 8.

b) Wenn Sie die Reihenfolge der Kanäle ändern wollen:

1 Drücken Sie die Taste ▼ oder ▲ , um die Programm- Nummer mit dem Kanal (Fernsehsender), deren Stellung Sie ändern wollen, auszuwählen und, anschließend, drücken Sie auf ▶ .



2 Drücken Sie die Taste ▼ oder ▲ , um die neue Programm- Nummer auszuwählen, unter der Sie den ausgewählten Kanal (Fernsehsender) speichern wollen. Anschließend drücken Sie ◀ .

3 Wiederholen Sie die Schritte b1) und b2), wenn Sie andere Fernsehkanäle neu ordnen wollen.

8 Drücken Sie die Taste **MENU**, um zum normalen Fernsehbild zurückzukehren.

Der Fernseher ist nun betriebsbereit.

Einführung in das Menü- System auf dem Bildschirm und seine Anwendung

Dieser Fernseher verwendet auf dem Bildschirm ein Menü- System, um Sie bei den verschiedenen Arbeitsvorgängen zu leiten. Verwenden Sie folgenden Tasten der Fernbedienung, um sich innerhalb des Menüs zu bewegen.

1 Drücken Sie die Taste **MENU**, um das erste Menü- Niveau auf dem Bildschirm zu zeigen.

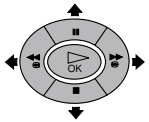
2 • Drücken Sie auf die Taste ▼ oder ▲, um das gewünschte Menü oder die gewünschte Option zu markieren.

• Drücken Sie auf ▶, um das Menü oder die gewählte Option einzublenden.

• Drücken Sie auf ◀, um zum vorangegangenen Menü oder zur vorherigen Option zurückzukehren. ◀.

• Um die Einstellungen der gewählten Option zu ändern, drücken Sie auf ▼ / ▲ / ◀ oder ▶.

• Um Ihre Auswahl zu bestätigen und zu speichern, drücken Sie **OK**.

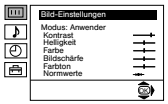


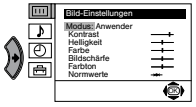
3 Drücken Sie die Taste **MENU**, um zum normalen Fernsehbildschirm zurückzukehren.

DE

Menü- Führer

Niveau 1	Niveau 2	Niveau 3 / Funktion





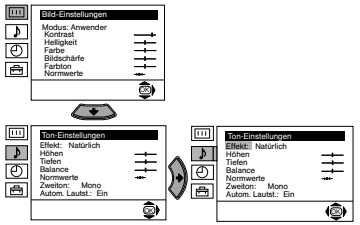
BILDEINSTELLUNGEN
Das Menü „Bild-Einstellungen" erlaubt Ihnen die Bildeinstellungen zu ändern.

Hierzu gehen Sie wie folgt vor: Drücken Sie ▶, nach der Auswahl der Option, die Sie ändern wollen. Anschließend drücken Sie mehrere Male ▼ / ▲ / ◀ oder ▶, um die Einstellung zu ändern, und am Schluss drücken Sie OK zum Speichern derselben.
Dieses Menü erlaubt Ihnen ebenfalls den Bild- Modus zu ändern, gemäß der Art des Programms, das sie gerade betrachten:
- ▼ **Anwender** (für persönliche Vorränge).
- ▼ **Live** (für Live- Sendungen, DVD und Digitale Set Top Boxen).
- ▼ **Film** (für Filme)

- ***Helligkeit, Farbe*** *und* ***Bildschärfe*** *können nur geändert werden, wenn Sie den Bild- Modus in „Anwender" ausgewählt haben.*
- ***Farbton*** *ist nur verfügbar für das Farbsystem NTSC (z.B. nordamerikanische Videobänder).*
- *Um die werkseitig eingestellten Bild- Einstellungen wieder herzustellen, wählen Sie* ***Normwerte*** *und drücken Sie* ***OK****.*

wird fortgesetzt...

Niveau 1	Niveau 2	Niveau 3 / Funktion



TON-EINSTELLUNGEN
Das Menü „Ton-Einstellungen" erlaubt Ihnen die Toneinstellungen zu ändern.

Drücken Sie hierzu ▶, nach Auswahl der Option, die Sie ändern wollen. Anschließend drücken Sie wiederholt ▼ / ▲ / ◀ oder ▶, um die Einstellung zu ändern und drücken Sie abschließend **OK** zum Speichern derselben.

Effekt	▶	▼ **Natürlich:**	Diese Taste erhöht die Klarheit, die Einzelheiten und die Klangpräsenz des Tons mit Hilfe des Systems „BBE High Definition Sound system"*.
		▼ **Dynamisch:**	„BBE High Definition Sound system"* verstärkt die Klarheit und die Klangpräsenz des Tons, indem eine verständlichere Stimmqualität und eine realere Musikqualität erzeugt wird.
		▼ **Dolby******Virtual:**	Täuscht den Toneffekt „Dolby Surround Pro Logic" vor.
		▼ **Aus:**	Ohne besondere akustische Effekte
Höhen	▶	◀ Weniger ▶ Mehr	
Tiefen	▶	◀ Weniger ▶ Mehr	
Balance	▶	◀ Links ▶ Rechts	
Normwerte	OK	Diese Taste stellt die in der Fabrik eingestellten Normwerte wieder her.	
Zweiton	▶	• *Bei Stereosendungen:* ▼ **Mono**. ▼ **Stereo**. • *Für zweisprachige Sendungen:* ▼ **Mono** (für Mono-Kanal, falls verfügbar). ▼ **A** (für den Kanal 1). ▼ **B** (für den Kanal 2).	
Autom. Lautst.	▶	▼ **Aus:** Die Lautstärke variiert in Funktion des Sendesignals. ▼ **Ein:** Die Lautstärke wird aufrechterhalten, unabhängig vom Sendesignal (z. B. bei Werbe- Sendungen).	

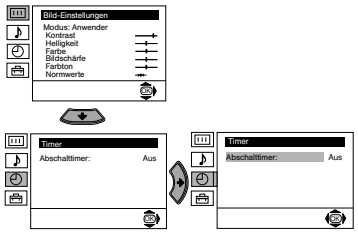
- *Wenn Sie den Fernseher mit Hilfe der Kopfhörer hören, wechselt der Option „Effekt" automatisch zur Position „Aus".*
- *Wenn Sie „Effekt" auf „Dolby Virtual" einstellen, springt die Option „Autom. Lautst." automatisch auf die Position „Aus" und umgekehrt.*

* *„BBE High Definition Sound system" wird hergestellt von Sony Corporation unter Lizenz von BBE Sound, Inc. BBE ist durch das Patent Nr. 4,638,258 und No. 4,482,866 aus USA geschützt. Das Wort "BBE" und das Symbol "BBE" sind Handelsmarken von BBE Sound, Inc.*

** *Dieser Fernseher wurde entworfen, um den Toneffekt „Dolby Surround" zu erzeugen, welcher nur mit den beiden Lautsprechern des Fernsehers den Ton von 4 Lautsprechern vortäuscht, solange das Tonsignal des Sender „Dolby Surround" ist. Außerdem können Sie den Toneffekt ebenfalls auch dadurch verbessern, dass Sie einen externen Verstärker anschließen. Für weitere Einzelheiten lesen Sie das Kapitel „Anschluss einer externen Audio-Anlage" auf der Seite 19.*

** *In Lizenz von Dolby Laboratories hergestellt. „Dolby", „Pro Logic" und das Doppel- D- Symbol ◻◻ sind Warenzeichen der Dolby Laboratories.*

Niveau 1 **Niveau 2** **Niveau 3 / Funktion**

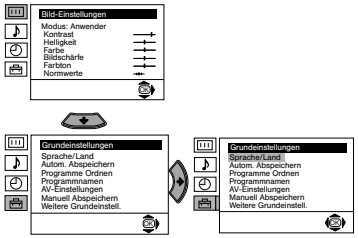


ABSCHALTTIMER

Die Option „Abschalttimer“ im Menü „Timer“ erlaubt Ihnen eine Zeitspanne auszuwählen, nach welcher der Fernseher automatisch in den Bereitschaftsmodus (Standby) eintritt.

Drücken Sie hierzu ➧ nach Auswahl dieser Option. Anschließend drücken Sie ➧ oder ➧ , um die Zeitspanne (höchstens 4 Stunden) auszuwählen und, am Schluss, drücken Sie **OK** zum Speichern.

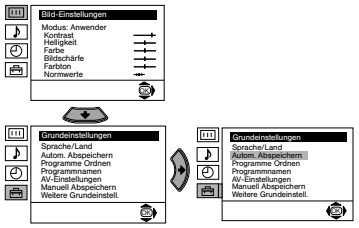
- *Wenn Sie die verbleibende Restzeit bis zum Abschalten sehen wollen, währendem Sie eine Fernsehsendung betrachten, drücken Sie die Taste* ⊕.
- *Ein Minute bevor der Fernseher in den Bereitschaftsmodus eintritt, wird die verbleibende Restzeit auf dem Bildschirm angezeigt.*



SPRACHE / LAND

Die Option „Sprache / Land“ im Menü „Grundeinstellungen“ erlaubt Ihnen die Sprache auszuwählen, in der die Bildschirm- Menüs erscheinen sollen. Sie können ebenfalls das Land auswählen, in dem Sie den Fernseher benützen wollen.

Drücken Sie hierzu nach Auswahl dieser Option die Taste ➧. Anschließend gehen Sie so vor, wie in den Schritten 2 und 3 des Kapitels „Einschalten und automatische Feinabstimmung des Fernsehers” auf der Seite 7, angegeben wird.



AUTOMATISCHES ABSPEICHERN

Die Option „Autom. Abspeichern“ im Menü „Grundeinstellungen“ erlaubt Ihnen die Suche und Speicherung aller verfügbaren Fernsehkanäle (Fernsehsender).

Drücken Sie hierzu nach Auswahl dieser Option die Taste ➧. Anschließend gehen Sie so vor, wie in den Schritten 5 und 6 des Kapitels „Einschalten und automatische Feinabstimmung des Fernsehers” auf der Seite 8, angegeben wird.

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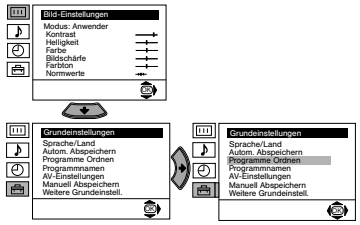
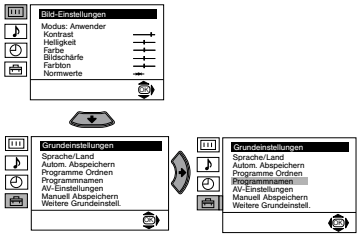
Niveau 1 **Niveau 2** **Niveau 3 / Funktion**



PROGRAMME ORDNEN

Die Option „Programme Ordnen“ im Menü „Grundeinstellungen“ erlaubt Ihnen die Reihenfolge, wie die Kanäle (Fernsehsender) auf dem Bildschirm erscheinen, zu ändern.

Drücken Sie hierzu nach Auswahl dieser Option die Taste ➧. Anschließend gehen Sie so vor, wie im Schritt 7b) des Kapitels „Einschalten und automatische Feinabstimmung des Fernsehers„ auf der Seite 8, angegeben wird.



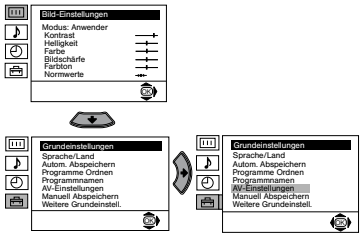
PROGRAMMNAMEN

Die Option „Programmnamen” im Menü „Grundeinstellungen” erlaubt Ihnen einem Kanal einen Namen mit höchstens fünf Buchstaben zu verleihen.

Hierzu gehen Sie wie folgt vor:

1 Drücken Sie nach Auswahl der Option ➧, und anschließend drücken Sie ➧ oder ➧ , um die Programm- Nummer des Programms auszuwählen, der Sie einen Namen verleihen wollen.

2 Drücken Sie ➧. Mit dem markierten ersten Element der Spalte **Name**, drücken Sie ➧ oder ➧ , um einen Buchstaben, eine Nummer oder "-" für eine Leerstelle, auszuwählen und anschließend drücken Sie ➧, um diesen Buchstaben zu bestätigen. Wählen Sie die übrigen vier Buchstaben auf dieselbe Weise aus. Abschließend drücken Sie **OK** zum Speichern.



AV-EINSTELLUNGEN

Die Option „AV-Einstellungen” im Menü „Grundeinstellungen” erlaubt Ihnen dem an diesen Fernseher angeschlossenen externen Gerät einen Namen zu verleihen.

Hierzu gehen Sie wie folgt vor:

1 Nach Auswahl der Option, drücken Sie ➧ und anschließend drücken Sie ➧ oder ➧ , um die Eingangsquelle auszuwählen, der Sie einen Namen verleihen wollen, (**AV1** und **AV2** für die Anlagen, die als Option zur Wahl stehen und die an die hinten am Fernseher angebrachten Eurobuchsen angeschlossen sind sowie **AV3** für die vorderen). Anschließend drücken Sie ➧.

2 In der Spalte "Name" wird automatisch ein vorgegebener Namen erscheinen.:

a) Wenn Sie einen der 6 vorgegebenen Namen benützen wollen (**CABLE, GAME, CAM, DVD, VIDEO** oder **SAT**), drücken Sie ➧ oder ➧ , um einen davon auszuwählen und abschließend drücken Sie **OK**, zum Speichern desselben.

b) Wenn Sie einen eigenen Namen verwenden wollen, wählen Sie **Bearb.** und drücken Sie ➧. Anschließend, mit dem markierten ersten Element, drücken Sie ➧ oder ➧ , um einen Buchstaben, eine Nummer oder "-" für eine Leerstelle auszuwählen und drücken Sie ➧, um diesen Buchstaben zu bestätigen.Wählen Sie die übrigen vier Buchstaben auf dieselbe Weise aus und drücken Sie abschließend **OK** zum Speichern.

Videotext

Der Videotext ist ein Informationsdienst, der von den meisten Fernsehsendern übertragen wird. Die Seite der Inhaltsangabe des Videotextdienstes (im Allgemeinen Seite 100) stellt Informationen zur Verfügung, wie dieser Dienst verwendet wird. Verwenden Sie zur Anwendung des Videotextes die Tasten der Fernbedienung, wie auf dieser Seite angegeben wird.

Stellen Sie sicher, dass ein Fernsehkanal mit einem starken Signal verwendet wird, da sich im gegenteiligen Fall Fehler im Videotext ergeben könnten.

Ein- und Ausschalten des Videotextes:
Drücken Sie die Taste (☰), nachdem Sie den Kanal (Fernsehsender), der den Videotextdienst überträgt, ausgewählt haben.

Auswahl einer Videotext- Seite
Geben Sie mit Hilfe der Nummerntastatur der Fernbedienung die drei Ziffern der Seitennummer, die Sie sehen wollen, ein.

- *Wenn Sie eine Fehleingabe machen, wählen Sie drei beliebige Ziffern aus, und wiederholen Sie anschließend die Eingabe der richten Seitennummer.*
- *Wenn der Seitenzähler nicht anhält, ist die gewünschte Seite nicht verfügbar. In diesem Fall gebenSie eine andere Seitennummer ein.*

Auswahl der darauffolgenden oder vorausgegangenen Seite:
Drücken Sie PROG + (▲) o PROG - (▼).

Projektion von Videotext auf das Fernsehbild:
Drücken Sie die Taste (☰), während Sie den Videotext betrachten. Drücken Sie sie nochmals, um den Videotext- Modus zu beendene (☰).

Zurückhalten einer Seite:
Drücken Sie ⏎ / (⏸). Drücken Sie nochmals, um die Zurückhaltung wieder aufzuheben.

Aufdecken einer versteckten Information (z.B. Lösungen von Rätseln):
Drücken Sie (+) / (?). Drücken Sie nochmals, um die Information wieder zu verstecken.

Auswahl einer Nebenseite:
Es kann sein, dass eine Videotextseite aus verschiedenen untergeordneten Nebenseiten besteht. In diesem Fall wechselt die Seitenzahl, die oben links erscheint, von gelb zu grün, und es erscheinen einer oder mehr Pfeile neben der Seitenzahl. Betätigen Sie die Tasten ◀ oder ▶ der Fernbedienung, um die gewünschte Nebenseite zu sehen.

Den Videotextdienst beenden:
Drücken Sie die Taste (▢).

Fastext

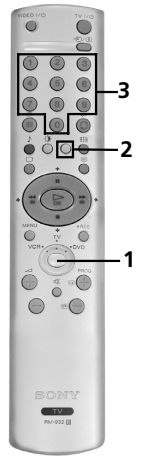
Der Fastext- Dienst erlaubt die Videotext- Seiten mit dem Betätigen einer einzigen Taste aufzurufen.
Wenn Sie Videotext betrachten und Fastext- Signale übertragen werden, erscheint unten auf der Bildschirmseite ein farbiges Kode- Menü, das Ihnen den direkten Zutritt zu einer Seite erlaubt. Drücken Sie hierzu die entsprechende Farbtaste (rot, grün, gelb oder blau) der Fernbedienung.

DE

Grundeinstellung der Fernbedienung für ein DVD oder einen Vídeorecorder

Diese Fernbedienung ist dazu vorbereitet nicht nur die Funktionen dieses Sony-Fernsehers, sondern ebenfalls die Grundfunktionen Ihres DVD Marke Sony und der Mehrzahl der Sony- Videorecorder zu steuern, ohne dass es notwendig ist die Grundeinstellung der Fernbedienung vorzunehmen. Zum Steuern anderer DVD-Marken und Videorecorder sowie einiger Sony- Videogeräte, müssen Sie die Grundeinstellung dieser Fernbedienung vor ihrer erstmaligen Anwendung vornehmen. Hierzu ist es nötig die folgenden Schritte durchzuführen:

- Suchen Sie bevor Sie beginnen den dreistelligen Code, laut der Marke Ihres DVD oder Videogeräts (siehe die Tabelle weiter unten). Bei den Marken, bei denen mehr als ein Code erscheint, geben Sie den ersten davon ein.
- Sony macht Anstrengungen, um die Codes gemäß den Marktänderungen zu aktualisieren. Sie finden die Tabelle mit den aktualisierten Codes im Beutel, der die Fernbedienung enthält.



1 Drücken Sie mehrere Male die Taste der Geräteauswahl der Fernbedienung, bis in der gewünschten Position DVD oder VCR (für den Videorecorder) das grüne Licht erscheint.

Wenn sich der Wähler der Anlage in der Position TV befindet, kann kein Code gespeichert werden.

2 Während der Leuchtanzeiger in grüner Farbe in der gewünschten Position erleuchtet ist, drücken Sie ca. 6 Sekunden lang die gelbe Taste der Fernbedienung, bis der Leuchtanzeiger in grüner Farbe zu blinken beginnt.

3 Während der Leuchtanzeiger in grüner Farbe blinkt, geben Sie in Übereinstimmung mit dem Gerät, das Sie benutzen werden und mit Hilfe der Nummerntastatur der Fernbedienung den Code mit 3 Ziffern ein.

Falls es den eingegebenen Code gibt, leuchten die drei Leuchtanzeiger in grüner Farbe momentan auf. In gegenteiligem Fall wiederholen Sie vorausgegangenen Schritte.

4 Schalten Sie das Gerät, das Sie benutzen wollen, ein und prüfen Sie, dass Sie mit der Fernbedienung des Fernsehers die hauptsächlichen Funktionen steuern können.

- Wenn das Gerät nicht funktioniert oder einige Funktionen versagen, wiederholen Sie alle vorausgegangenen Schritte und vergewissern Sie sich, dass Sie den richtigen Code eingeben und falls es mehr als einen Code gibt, versuchen Sie den nächst folgenden und fahren Sie so fort, bis der richtige Code gefunden ist.
- Die gespeicherten Codes gehen verloren, wenn der Batteriewechsel der verbrauchten Batterien nicht in weniger als einer Minute vollzogen wird. In diesem Fall wiederholen Sie sämtliche vorausgegangenen Schritte. Auf der Innenseite des Batteriedeckels befindet sich ein Etikett auf das Sie den Code schreiben können.
- Es sind nicht alle Marken und nicht alle Modelle in Betracht gezogen.

Liste gemäß Marken der Videorecorder

Marke	Code
SONY (VHS)	301, 302, 303, 308, 309
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350
TOSHIBA	337

Liste gemäß DVD- Marken

Marke	Code
SONY	001
AIWA	021
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004
JVC	006, 017
KENWOOD	008
LG	015, 014
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022
PANASONIC	018, 027, 020, 002
PHILIPS	009, 028, 023, 024, 016, 003
PIONEER	004
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003
YAMAHA	018, 027, 020, 002

Technische Daten

TV- System:
In Abhängigkeit vom Land, das Sie ausgewählt haben:
B/G/H, D/K

Farb- System:
PAL, SECAM
NTSC 3.58, 4.43 (Nur Video- Eingang)

Kanal- Bereich:
VHF: E2-E12
UHF: E21-E69
CATV: S1-S20
HYPER: S21-S41
D/K: R1-R12, R21-R69

Bildröhre:
Flach- Bildschirm FD Trinitron
29" (ca. 73 cm. diagonale)

Anschlüsse an der Rückseite:
1/**1** 21-polige Eurobuchse CENELEC-Standard), einschließlich Eingang Ton / Video, Eingang RGB, Fernsehaudio- / videoausgang.

2/**2** (SMARTLINK) 21- polige Eurobuchse (CENELEC Standard), einschließlich Eingang Ton / Video, Eingang RGB, Ausgang Ton / Video wählbar und Anschluss Smartlink.

Ausgänge Ton (links/rechts) – Cinchbuchsen.

Anschlüsse an der Vorderseite:
3 Eingang S Vídeo – DIN 4- polig
3 Video- Eingang – Cinchbuchse
3 Audio- Eingang – Cinchbuchsen
Kopfhörer- Anschluss

Ton- Ausgabe:
2 x 20 W (Musikleistung)
2 x 10 W (RMS)
Woofer:
30 W (Musikleistung)
15 W (RMS)

Leistungsaufnahme:
130 W

Leistungsaufnahme im Modus Bereitschaftsbetrieb (Standby):
0.3 W

Abmessungen (breit x hoch x tief):
Ca. 771 x 585 x 506 mm.

Gewicht:
Ca. 50 Kg.

Mitgeliefertes Zubehör:
1 Fernbedienung RM- 932.
2 Batterien mit IEC- Kennzeichnung

Weitere Merkmale:
- Bild von 100 Hz.
- Videotext, Fastext, TOPtext (250 Speicherseiten Videotext).
- Abschalttimer.
- Smartlink (direkte Kommunikation zwischen Fernseher und einem kompatiblen Videorecorder. Ausführliche Informationen über Smartlink finden Sie in der Bedienungsanleitung Ihres Videorecorders).
- Automatische Feststellung des Fernsehsystems.
- Dolby Virtual.
- BBE.

Design und technische Daten sind, ohne vorherigen Bescheid, Änderungen unterworfen.

Öko-Papier – Chlorfrei

DE

Störungsbehebung

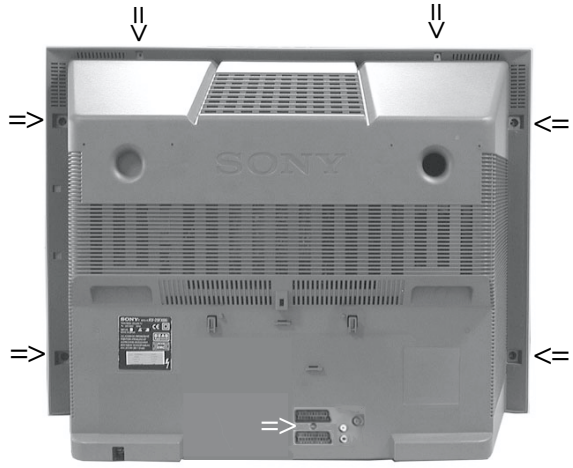
Nachfolgend finden Sie einige einfache Lösungsvorschläge für Probleme, die möglicherweise Bild und Ton beeinträchtigen.

Problem	Lösung
Kein Bild (Bildschirm ist dunkel), kein Ton	• Überprüfen Sie die Antennen- Verbindung. • Schalten Sie das Fernsehgerät ein und drücken Sie die Taste ⏻ an der Vorderseite des Fernsehers. • Wenn die Anzeige ⏻ des Fernsehers leuchtet, drücken Sie die Taste **TV** ⏻ der Fernbedienung.
Schlechtes oder kein Bild, aber guter Ton.	• Rufen Sie mit Hilfe des Menü- Systems die Anzeige „Bild-Einstellungen" auf und wählen Sie „Normwerte" aus, um die werkseitigen Einstellungen wieder zu aktivieren.
Kein Bild oder kein Informations- Menü des frei wählbaren Zusatzgerätes, das an der Rückseite des Fernsehers an die Eurobuchse angeschlossen ist.	• Stellen Sie sicher, dass das frei wählbare Gerät angeschlossen ist und drücken Sie solange mehrmals die Taste der Fernbedienung , bis das richtige Eingangs- Symbol auf dem Bildschirm erscheint.
Gutes Bild, aber kein Ton.	• Drücken Sie die Taste + / - auf der Fernbedienung. • Überprüfen Sie, ob die Option „TV Lautsprecher" im Menü „Weitere Grundeinstell." bei der Stellung „Ein" ausgewählt ist. • Überprüfen Sie, dass die Kopfhörer ausgeschaltet sind.
Sendungen in Farbe werden schwarzweiß angezeigt	• Rufen Sie mit Hilfe des Menü- Systems das Menü „Bildeinstellungen" auf und wählen Sie „Normwerte" aus, um die werkseitigen Einstellungen wieder zu aktivieren.
Verzerrtes Bild beim Programmwechsel oder Auswählen des Videotextes.	• Schalten Sie das an die 21-polige Eurobuchse an der Rückseite des Fernsehers angeschlossene Gerät aus.
Fehlerhafte Buchstaben auf den Videotext- Seiten.	• Wählen Sie mit Hilfe des Menü- Systems die Option „Sprache/Land" und wählen Sie das Land aus, in dem Sie den Fernseher benützen.
Schiefes Bild.	• Wählen Sie mit Hilfe des Menü- Systems die Option „Bildrotation" im Menü „Weitere Grundeinstell." aus und korrigieren Sie die Schräglage.
Verrauschtes Bild.	• Wählen Sie mit Hilfe des Menü- Systems die Option „AFT" im Menü „Manuell Abspeichern" aus undstellen Sie manuell die Abstimmung ein, um einenbesseren Bildempfang zu erhalten. • Wählen Sie mit Hilfe des Menü- Systems die Option „Dyn. NR" im Menü „Weitere Grundeinstell." und wählen Sie „Auto" aus, um das Verrauschen des Bildes abzuschwächen.
Das Bild wird nicht richtig dekodiert oder es ist nicht stabil beim Sehen eines kodierten Kanals durch einen an die Eurobuchse **2**/**2** angeschlossenen Dekoder.	• Gehen Sie mit Hilfe des Menü- Systems in das Menü „Grundeinstellungen". Anschließend gehen Sie auf die Option „Weitere Grundeinstell." und wählen Sie „AV2 Ausgang" in „TV".
Fernbedienung funktioniert nicht.	• Prüfen Sie, ob sich die Taste der Geräte- Auswahl der Fernbedienung in der richtigen Position befindet gemäß dem Gerät, das Sie steuern wollen (DVD, TV oder VCR (für den Videorecorder). • Wenn Sie mit der Fernbedienung das DVD oder den Videorecorder nicht steuern können, obwohl sich die Taste der Geräte- Auswahl auf der richtigen Position befindet, geben Sie den notwendigen Kode nochmals so ein, wie es im Kapitel „Grundeinstellungen der Fernbedienung für ein DVD oder einen Videorecorder" dieses Anleitungshandbuchs erklärt wird. • Tauschen Sie die Batterien aus.
Die Bereitschaftsanzeige (Standby) ⏻ am Fernsehgerät blink.	• Wenden Sie sich an den nächsten Sony- Kundendienst.

⚠ Bleiben die Probleme bestehen, lassen Sie das Fernsehgerät bitte von qualifiziertem Fachpersonal warten. Öffnen Sie das Gehäuse AUF KEINEN FALL selbst.

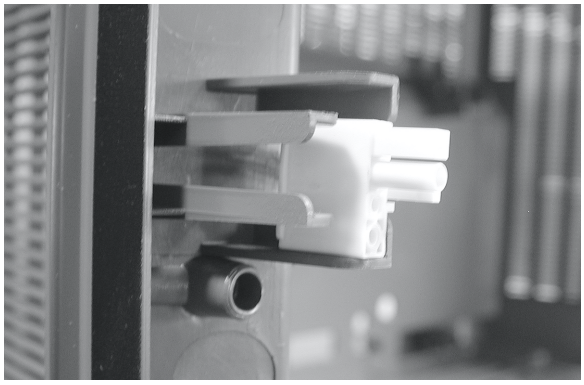
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



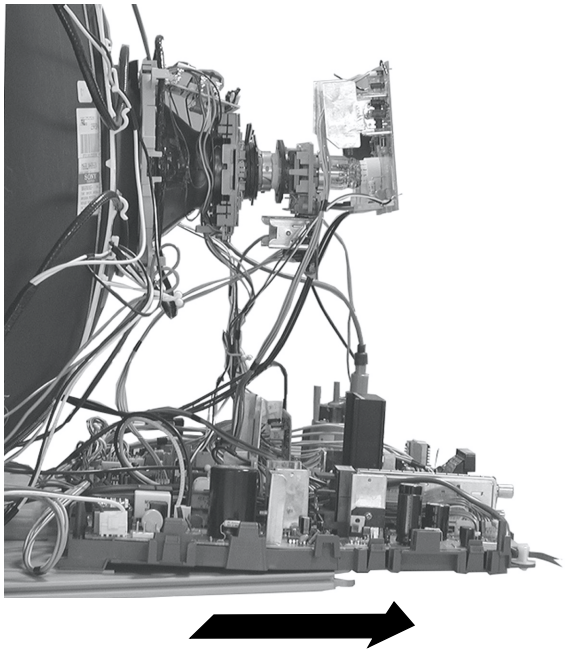
Remove the rear cover fixing screws indicated. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

2-2. Speaker Connector Disconnection

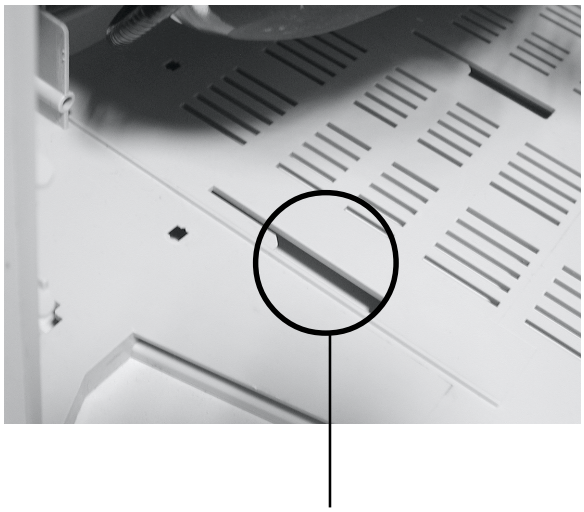


Before completely removing the rear cover disconnect the speaker connector which is located on the inside.

2-3. Chassis Removal and Refitting

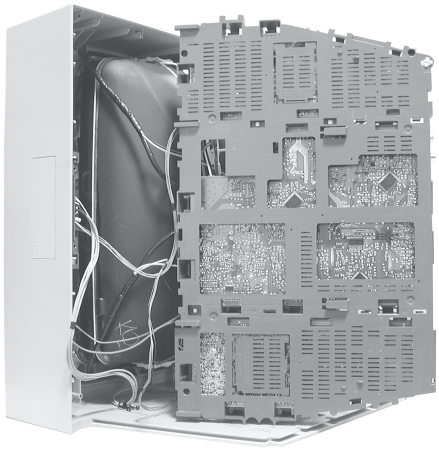


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



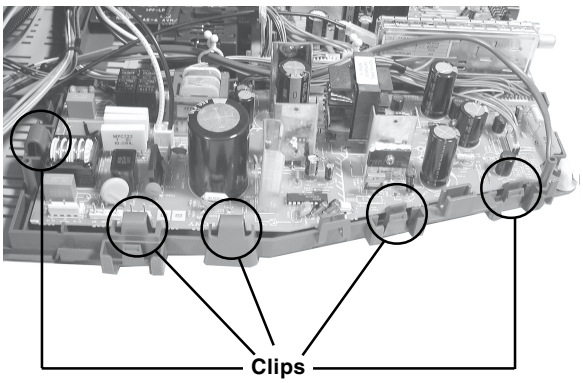
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

2-4. Service Position



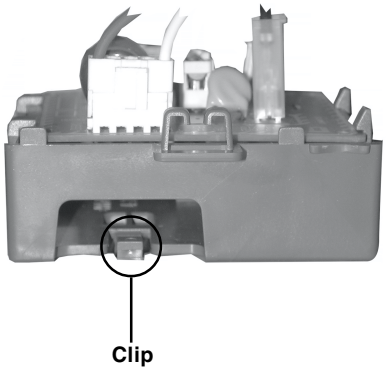
Position the chassis as indicated to access the solder side. To gain access to the underside of the boards follow the instructions on page 16. [Removal and Replacement of the main bracket bottom plates].

2-5. D and G Board Removal



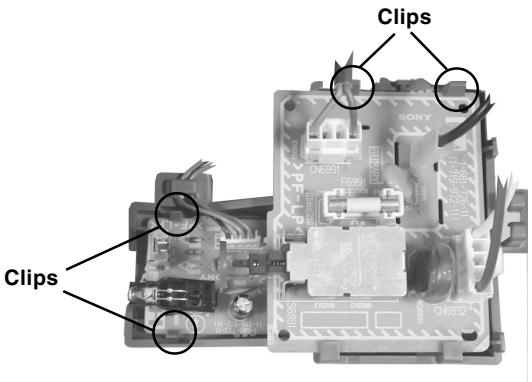
To remove the G Board release the clips circled and ease the board gently away from the support bracket. Removal of the D Board follows the same procedure.

2-6. F4 Bracket Removal



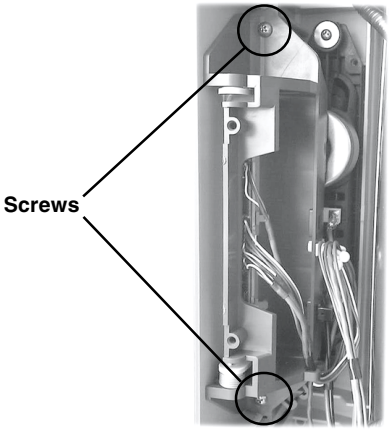
Release the clips circled and pull the bracket towards the rear of the set. The bracket can then be removed to allow access to the boards.

2-7. F4 and H1 Board Removal



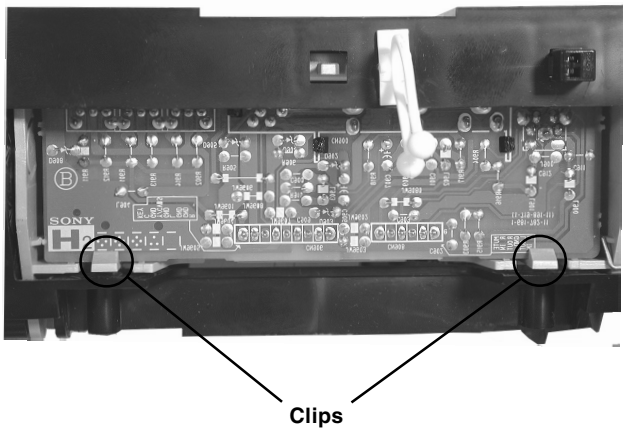
To remove the F4 and H1 Boards release the clips circled and ease the boards gently away from the support bracket.

2-8. Side Control Module Removal



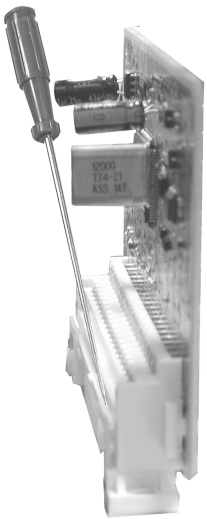
Remove the two screws fixing the user control module to the side of the set. The control module can then be removed by sliding it towards the rear of the set allowing access to the H2 Board.

2-9. H2 Board Removal



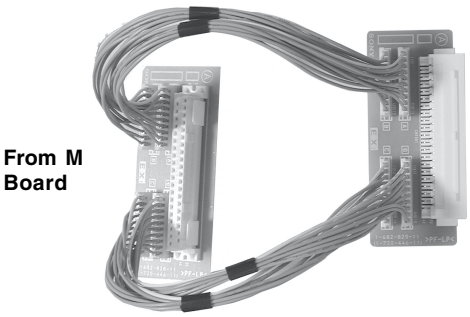
To remove the H2 Board release the two clips circled and ease the board gently away from the support bracket.

2-10. M Board Removal



To remove the M Board gently release the two clips with a screwdriver and remove the board from its socket vertically.

2-11. Service Connector for M Board



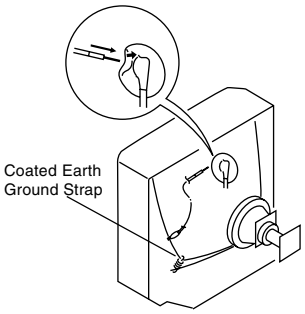
Extender Board Assembly A-1642-293-A

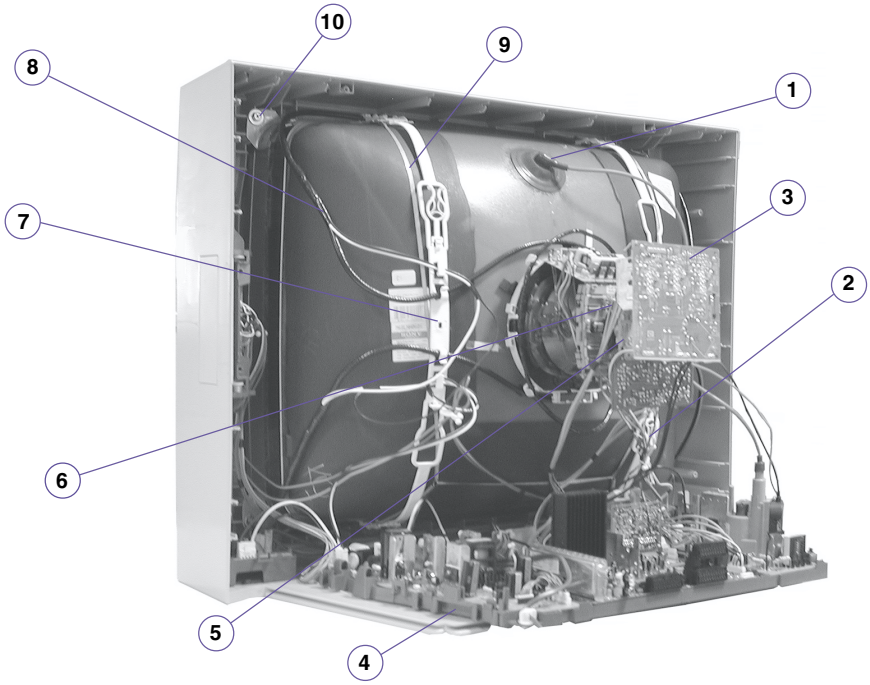
If the M Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.
The Extender board and extension cable are available as a service part by ordering the part number as indicated.

2-12. Picture Tube Removal

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

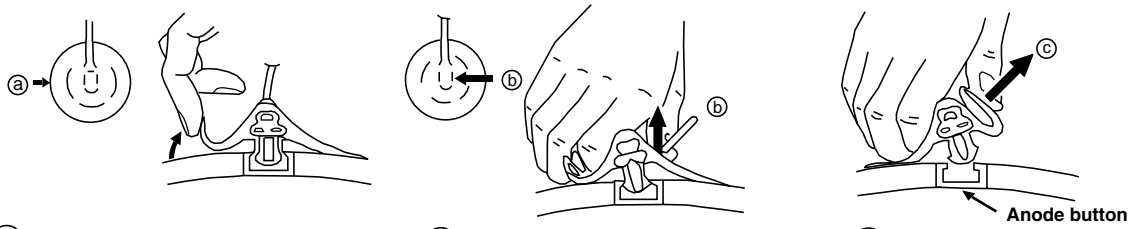




1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tentioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

*** REMOVING PROCEDURES.**



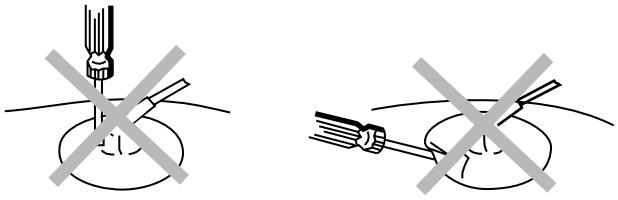
① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

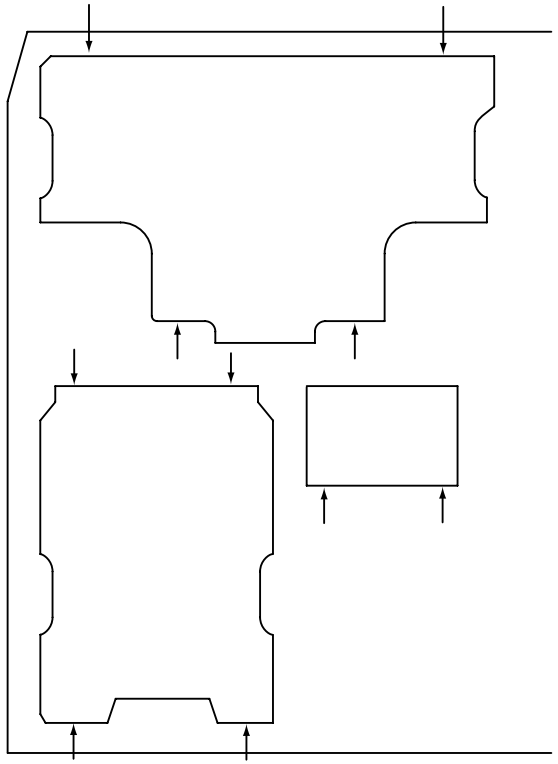


REMOVAL AND REPLACEMENT OFTHE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 3 plates fitted to the main bracket and secured by3 gates.
Only remove the necessary plate to gain access to the printed wiring board.

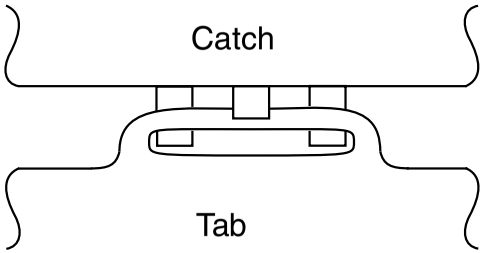


⚠ For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

  Contrast ..... normal

  Brightness ..... normal

Carry out the adjustments in the following order :

3-1. Beam Landing.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.
1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

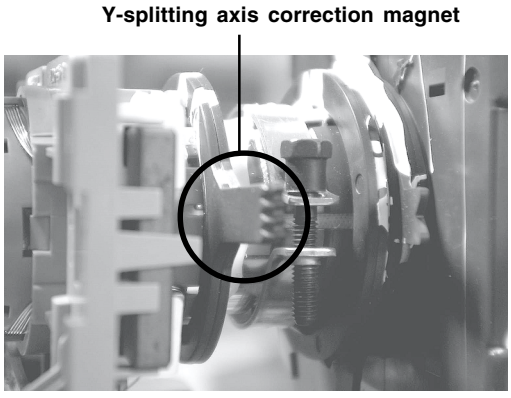
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1



Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Switch the pattern generator to green then blue and confirm the purity.
11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

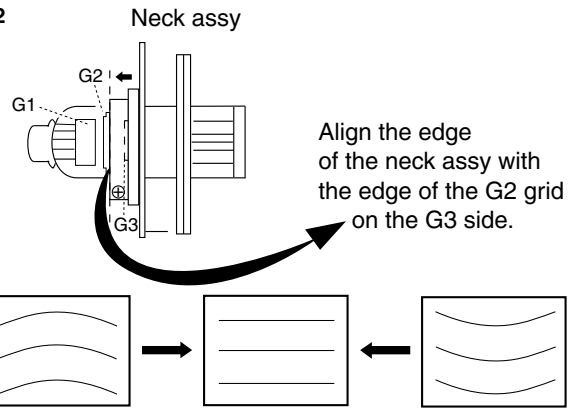
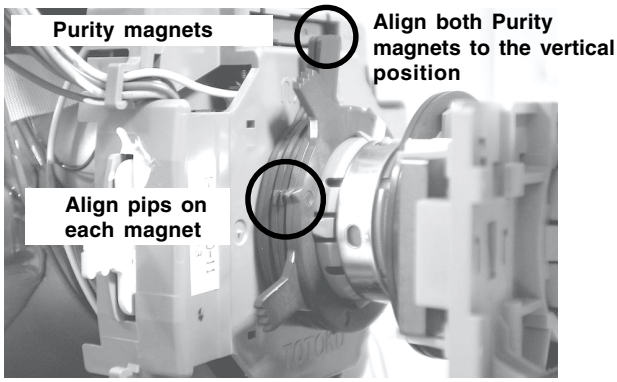
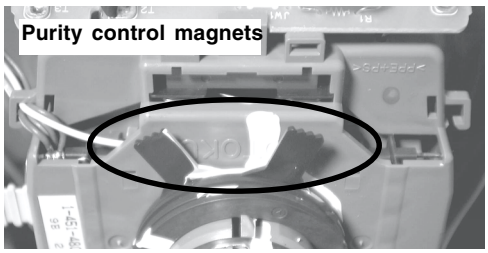
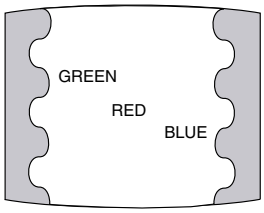


Fig.3-3

Fig.3-4







3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

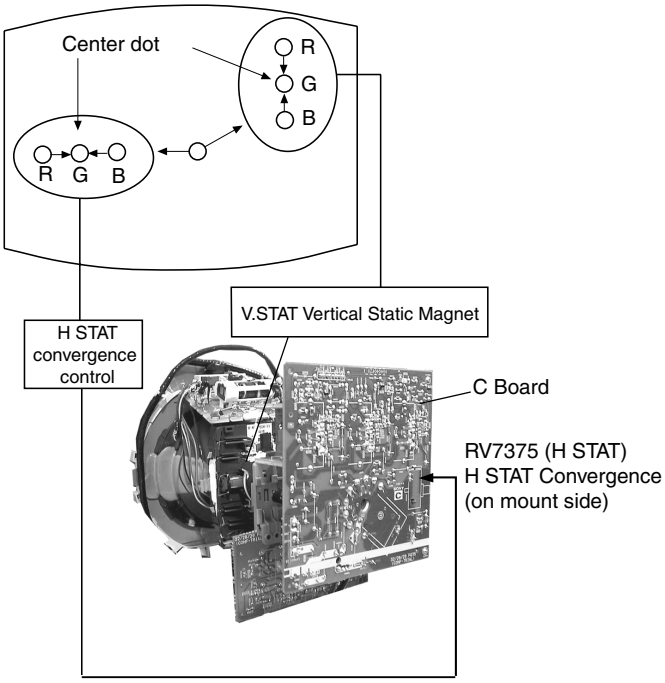
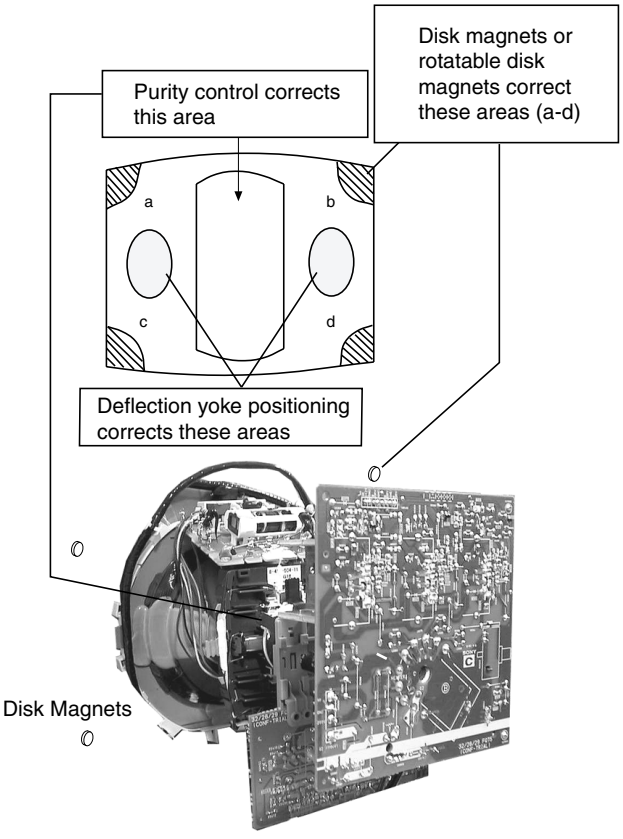
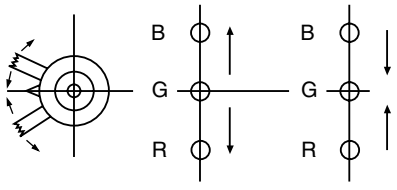


Fig.3-5



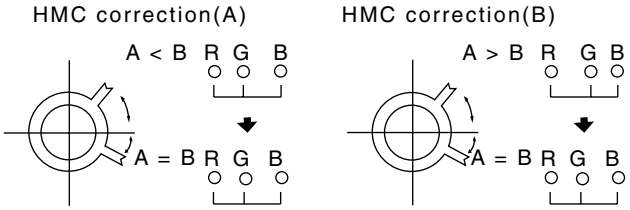
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



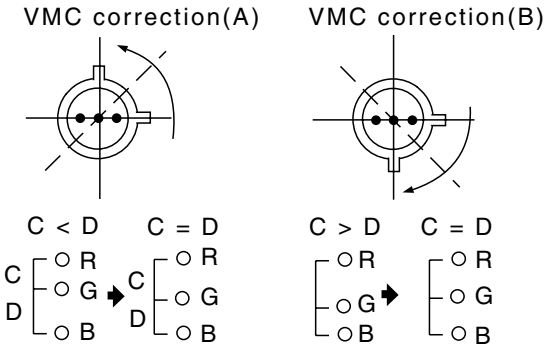
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

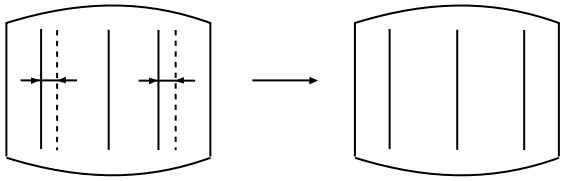
a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

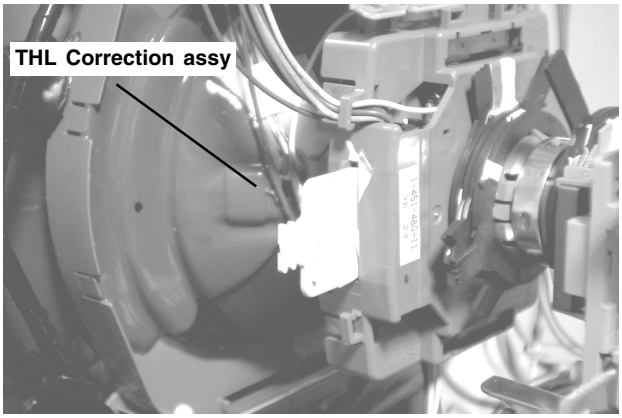


HAMP Adjustment

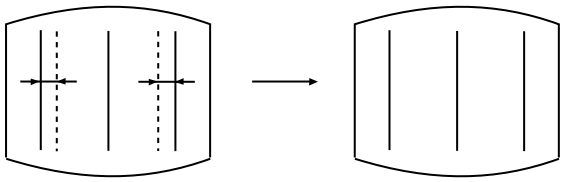


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

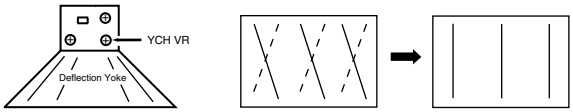
HTIL Adjustment



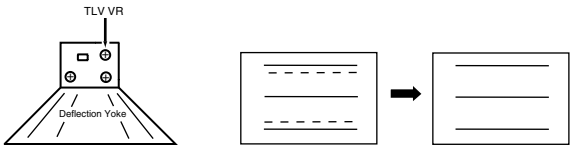
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



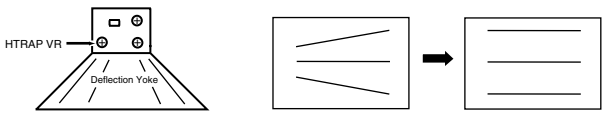
YCH Adjustment



TLV Adjustment

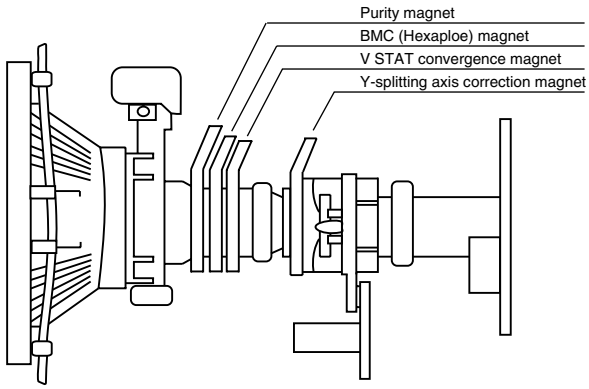


H-TRAP Adjustment

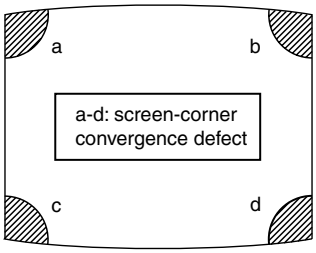


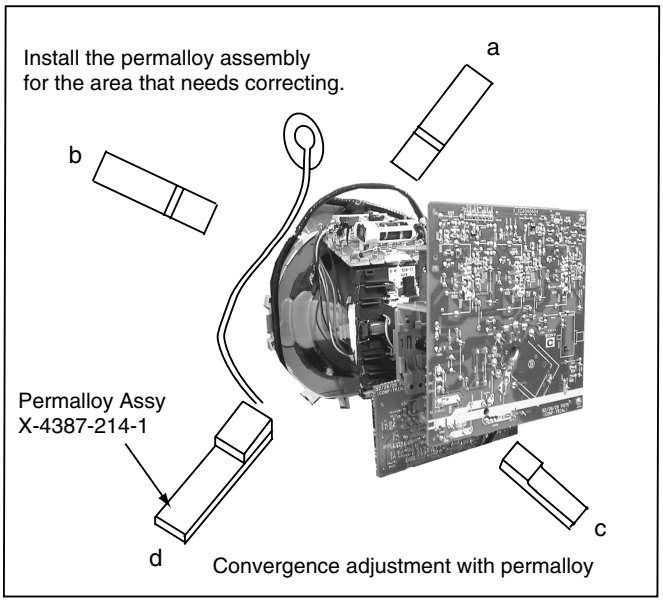
The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control



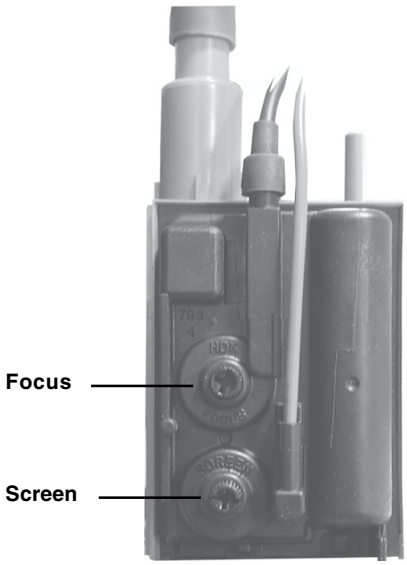
Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.





3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment [RV5376]

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 21].
3. Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
5. The 'Service' menu will appear on the screen.[See Page 22]
6. Set the 'Contrast' to MAX.
7. Set the 'R-Drive' to 50.
8. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
9. Press the 'OK' button to write the data for each item.
10. Set the 'Contrast' to MIN.
11. Set the 'R-Cutoff' to 29.
12. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-932.

Programming the Remote Commander for Operation in Service Mode

1. Press the VCR/TV/DVD button until the TV LED lights.
2. Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.
3. Press 99999. All three LED's should light.
   The remote commander is now set to Service Mode.
4. To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light.
   The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the video standby button on the remote commander twice.
   'TT __' will appear in the upper right corner of the screen.
   Other status information will also be displayed.
4. Press 'MENU' on the remote commander to obtain the following menu on the screen.

```
Geometry
Service
Scanrate
DAC
Dyn. Conv.
PiP
Sound
IF adjust
Error Menu

AE6B v0.14 (Jun 2001)
Factory data FFh  FFh
MSP Device : MSP3411G
```

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

GEOMETRY

ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		*1*
HNG		*0*
VNG		*0*

DYN. CONV.

RANGE	(0, 63)	63
YupL	(0, 1)	0
VAL	(0, 63)	30
YlowL	(0, 1)	0
VAL	(0, 63)	31
MBOWupL	(0, 1)	0
VAL	(0, 63)	31
MBOWlowL	(0, 1)	0
VAL	(0, 63)	32
HAMPL	(0, 1)	0
VAL	(0, 63)	37
YupR	(0, 1)	0
VAL	(0, 63)	30
YlowR	(0, 1)	0
VAL	(0, 63)	30
MBOWupR	(0, 1)	0
VAL	(0, 63)	32
MBOWlowR	(0, 1)	0
VAL	(0, 63)	32
HAMPR	(0, 1)	0
VAL	(0, 63)	36
UP Y	(0, 1)	0
VAL	(0, 63)	31
LOW Y	(0, 1)	0
VAL	(0, 63)	33
H STAT	(0, 1)	0
VAL	(0, 63)	33
UP CORR	(0, 1)	0
VAL	(0, 63)	34
LOW CORR	(0, 1)	0
VAL	(0, 63)	19

IF ADJUST

Automute	1
Audio Gain	0
L Gating	0

SERVICE

SUB COL	(0, 63)	Adj
SUB HUE	(0, 63)	31
SUB SHARP	(0, 63)	30
SUB BRIGHT	(0, 63)	13
SUB CONT	(0, 15)	12
R-DRIVE	(0, 63)	50
G-DRIVE	(0, 63)	Adj
B-DRIVE	(0, 63)	Adj
R CUTOFF	(0, 63)	28
G CUTOFF	(0, 63)	24
B CUTOFF	(0, 63)	46
Br TXT	(0, 15)	7
Br OSD	(0, 15)	10

DAC

CONFIG	*00000000*	
MPIN CONT	(0, 255)	96
HLIN	(0, 255)	83
HTRAP	(0, 255)	127
ROT. COIL	(0, 255)	130
PHOCUS PH	(0, 255)	90

SOUND

M-N	(0, 511)	200
M-D	(-128, -1)	-20
M-S	(+0, +127)	+20
S-M	(+0, +127)	+10
D-M	(-128, -1)	-10
N-M	(0, 1023)	496
BBE	(+0, +68)	+28
B1	(-96, +96)	+0
B2	(-96, +96)	+0
B3	(-96, +96)	+0
B4	(-96, +96)	+0
B5	(-96, +96)	+0
SW L	(-128, +0)	+0
SW F	(+5, +40)	+30
NICAM C AD	10001	
NICAM Error	(0, 2047)	0
Stereo	(-128, +127)	+0
Status	0000000110	

ERROR MENU

E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0

WORKING TIME

HOURS	14
MINUTES	7

Sub Brightness Adjustment

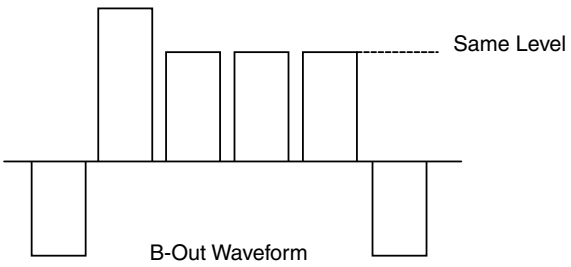
1. Input a Monoscope pattern.
2. Program the Remote Commander for operation in Service Mode. [See Page 21].
3. Press 'VIDEO' 'VIDEO' 13 on the Remote Commander.
4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

1. Input a video signal that contains a small 100% white area on a black background.
2. Connect an digital voltmeter to Pin 10 of J7378 [C Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 21].
4. Adjust the Sub-Contrast [Using 'VIDEO' 'VIDEO' '11'] to obtain a voltage of 105 +/- 5V.

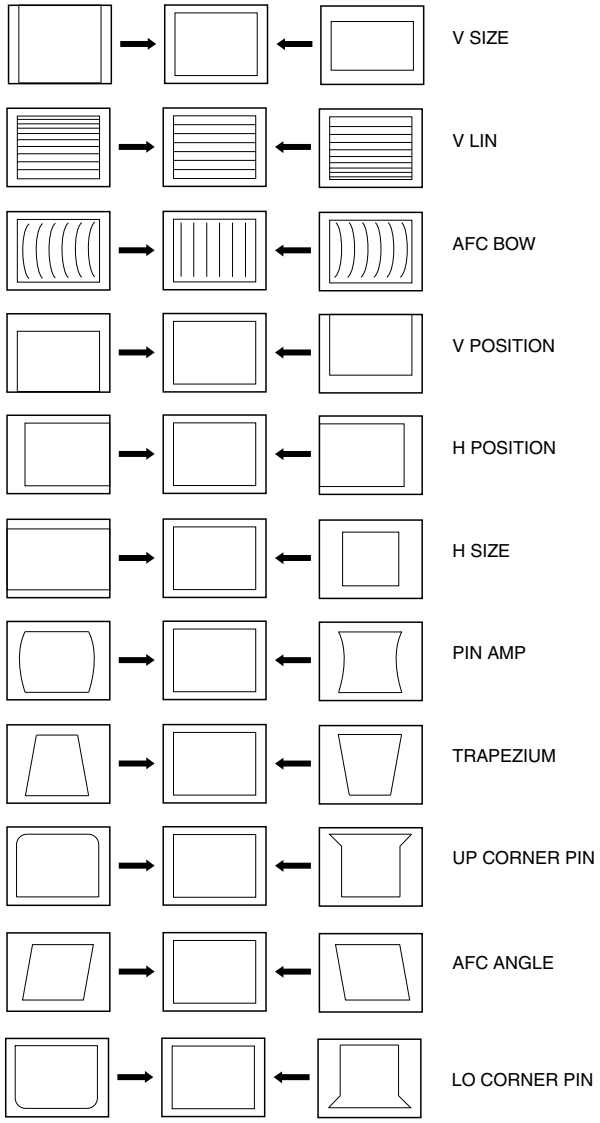
Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 21].
4. Adjust the 'Sub Colour' [Using 'VIDEO' 'VIDEO' '12'] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode. [See Page 21] and enter into the 'Geometry' service menu.
2. Select and adjust each item in order to obtain the optimum image.



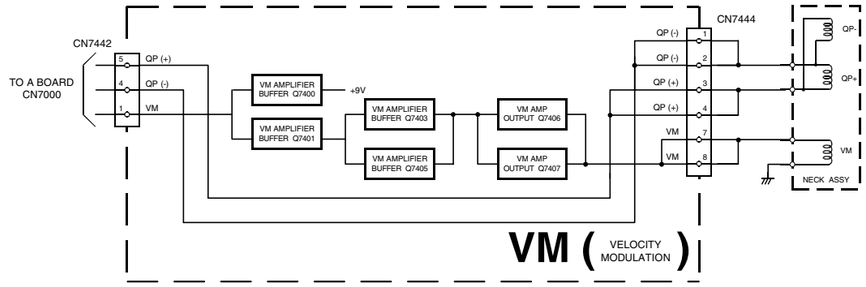
GEOMETRY		
ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		*1*
HNG		*0*
VNG		*0*

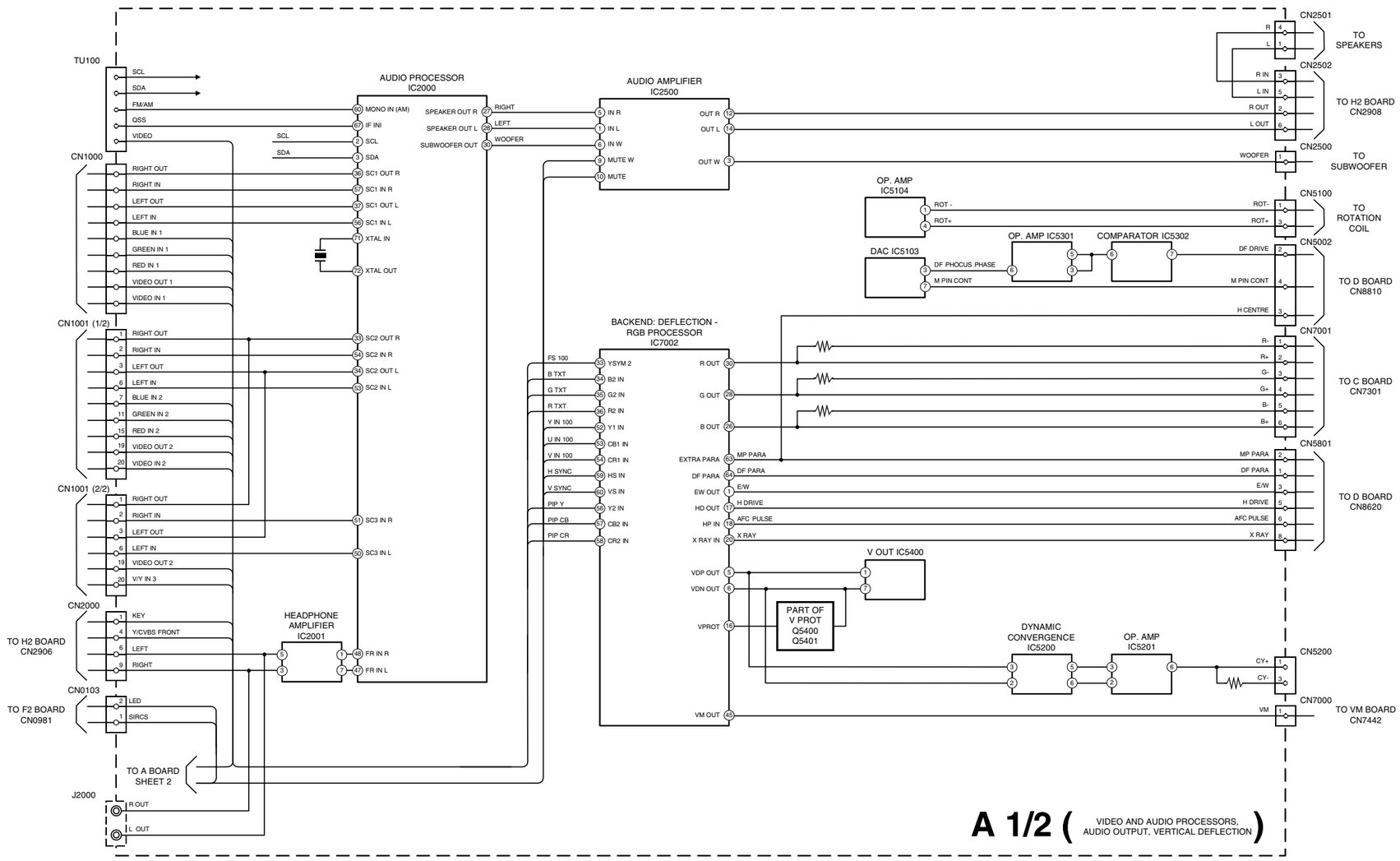
4-2. TEST MODE 2:

Test Mode 2 is available by rogramming the Remote Commander for operation in Service Mode [As shown on Page 21] then pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

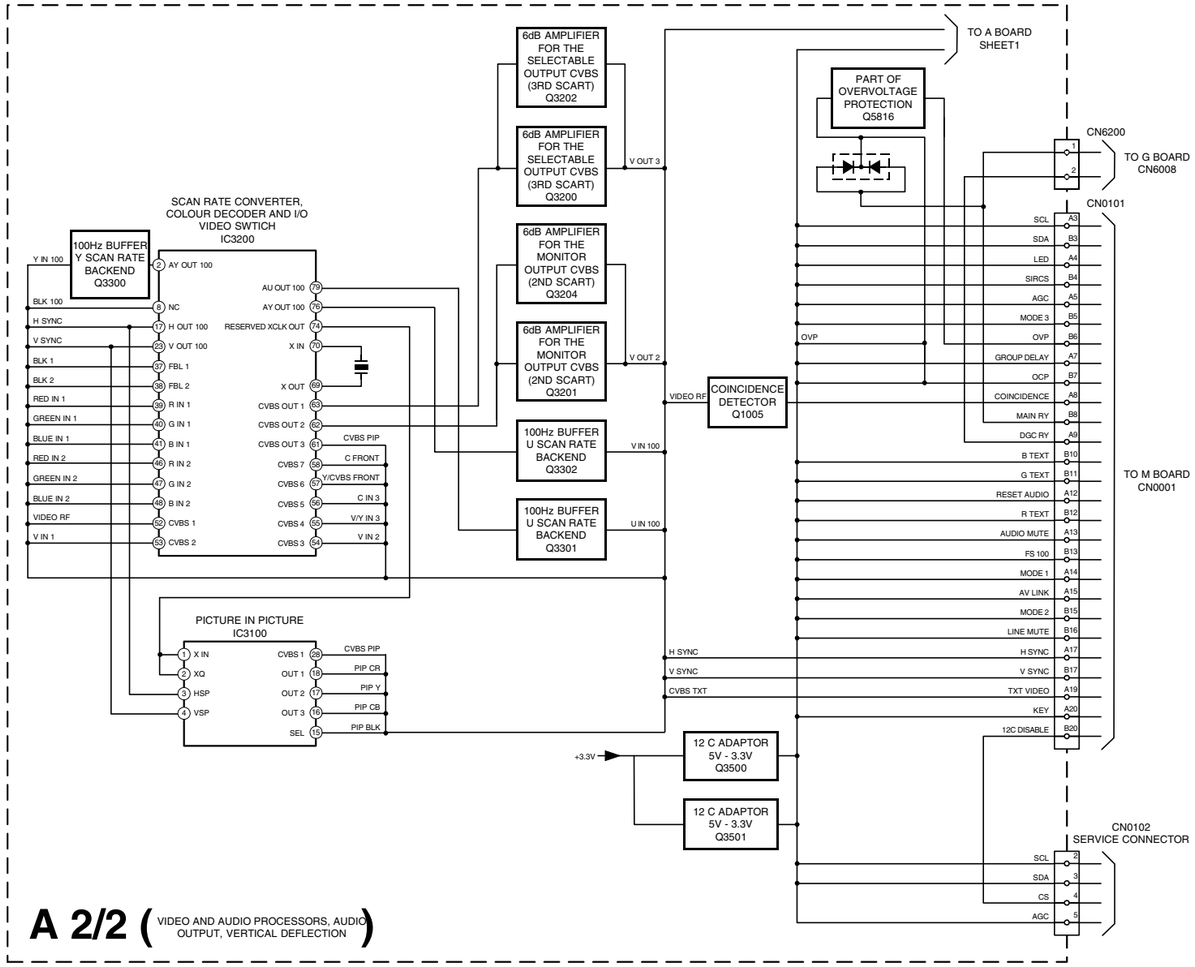
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Rotation Coil Test
16	Picture level 50%
19	Factory Mode Enable/Disable
21	Destination ADEKR
22	Destination BL
23	Destination ADEKR
24	Destination U
25	Destination ADEKR
26	Destination BL
27	Destination ADEKR
28	Destination ADEKR
31	Auto Shutoff Enable/Disable
36	Velocity Modulation (VM) OFF/ON test
41	Re-initialise NVM
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
48	Set NVM as non virgin
49	Set NVM as virgin
53	FM Overmodulation Enable/Disable
55	Tuner selection (SONY/ALPS)
59	Select Model 3 Scarts + PIP or 2 Scarts
68	Enable/Disable X26 countermeasure (N problem)
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/5.74)
78	Balance full right
79	Balance full left
87	Local keys test
99	Display Error and Working Time menu

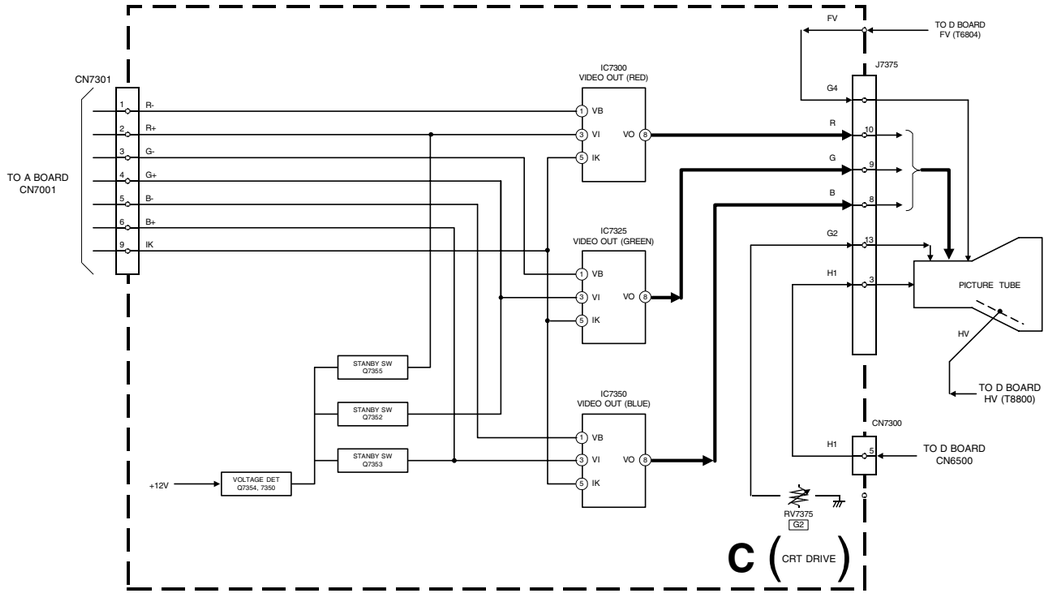
5-1. BLOCK DIAGRAMS (1)

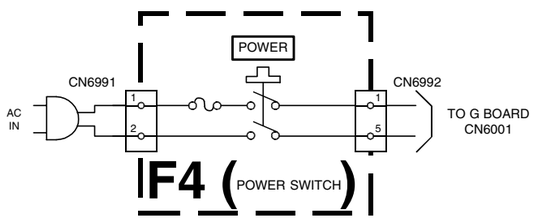


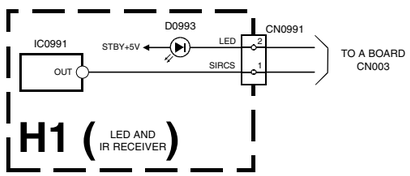


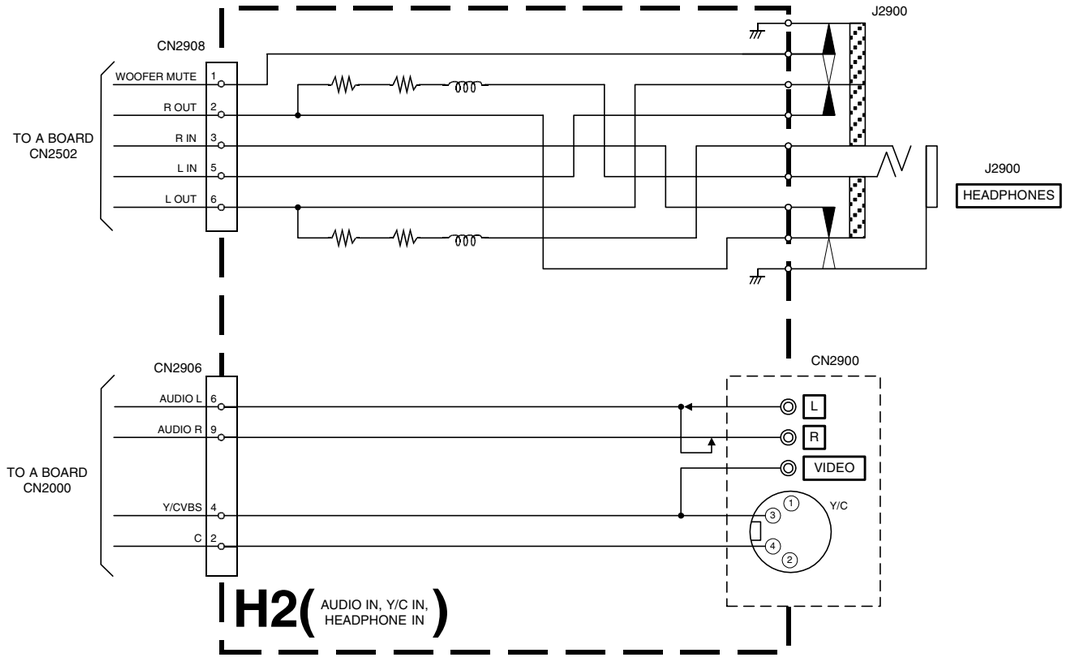
5-1. BLOCK DIAGRAMS (2)


TO A BOARD SHEET1
6dB AMPLIFIER FOR THE SELECTABLE OUTPUT CVBS (3RD SCART) Q3202
6dB AMPLIFIER FOR THE SELECTABLE OUTPUT CVBS (3RD SCART) Q3200
6dB AMPLIFIER FOR THE MONITOR OUTPUT CVBS (2ND SCART) Q3204
6dB AMPLIFIER FOR THE MONITOR OUTPUT CVBS (2ND SCART) Q3201
PART OF OVERVOLTAGE PROTECTION Q5816
CN6200
TO G BOARD CN6008
CN0101
SCAN RATE CONVERTER, COLOUR DECODER AND I/O VIDEO SWTICH IC3200
100Hz BUFFER Y SCAN RATE BACKEND Q3300
100Hz BUFFER U SCAN RATE BACKEND Q3302
100Hz BUFFER U SCAN RATE BACKEND Q3301
COINCIDENCE DETECTOR Q1005
TO M BOARD CN0001
PICTURE IN PICTURE IC3100
12 C ADAPTOR 5V - 3.3V Q3500
12 C ADAPTOR 5V - 3.3V Q3501
CN0102 SERVICE CONNECTOR
A 2/2 (VIDEO AND AUDIO PROCESSORS, AUDIO OUTPUT, VERTICAL DEFLECTION)

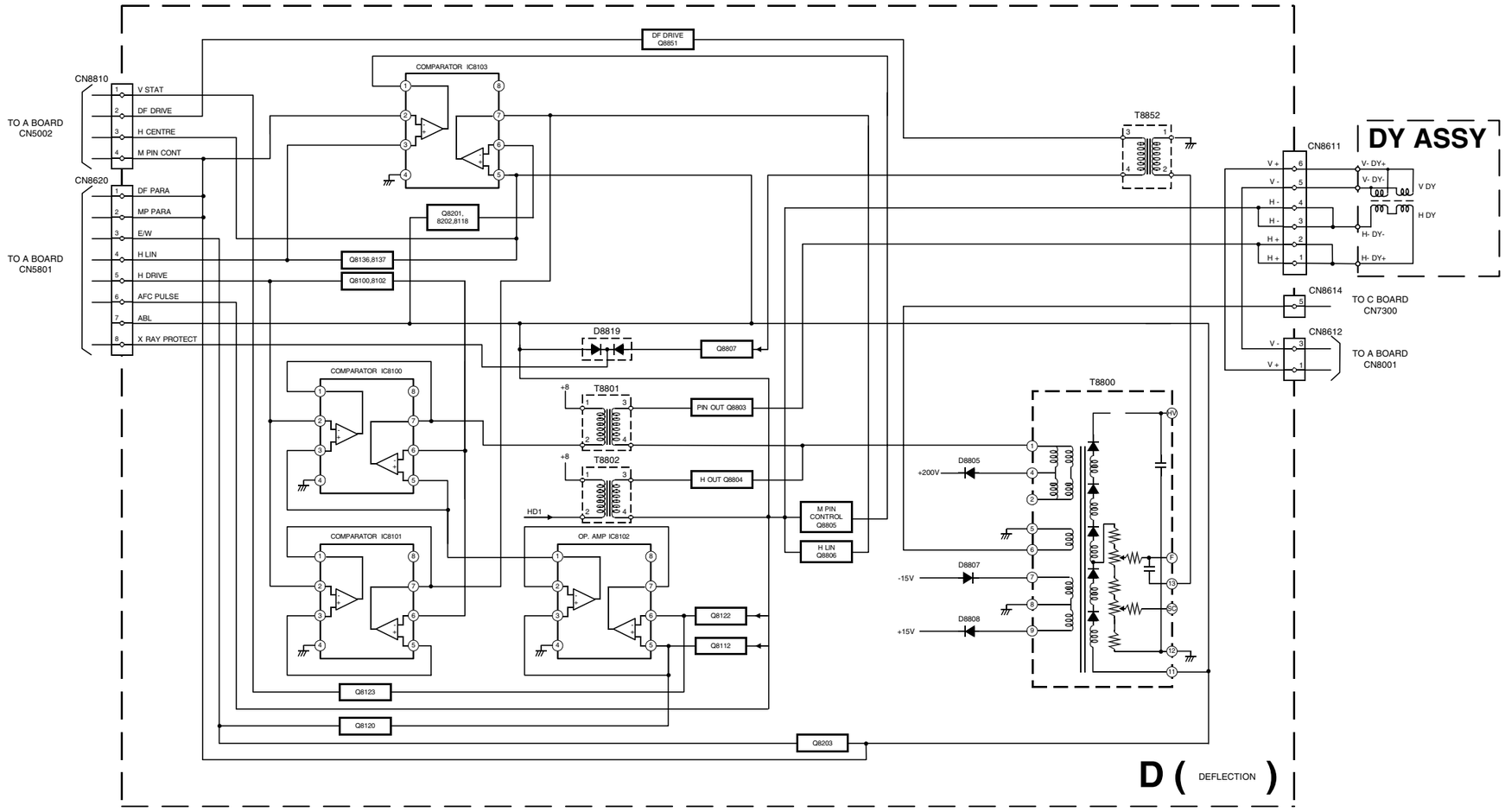


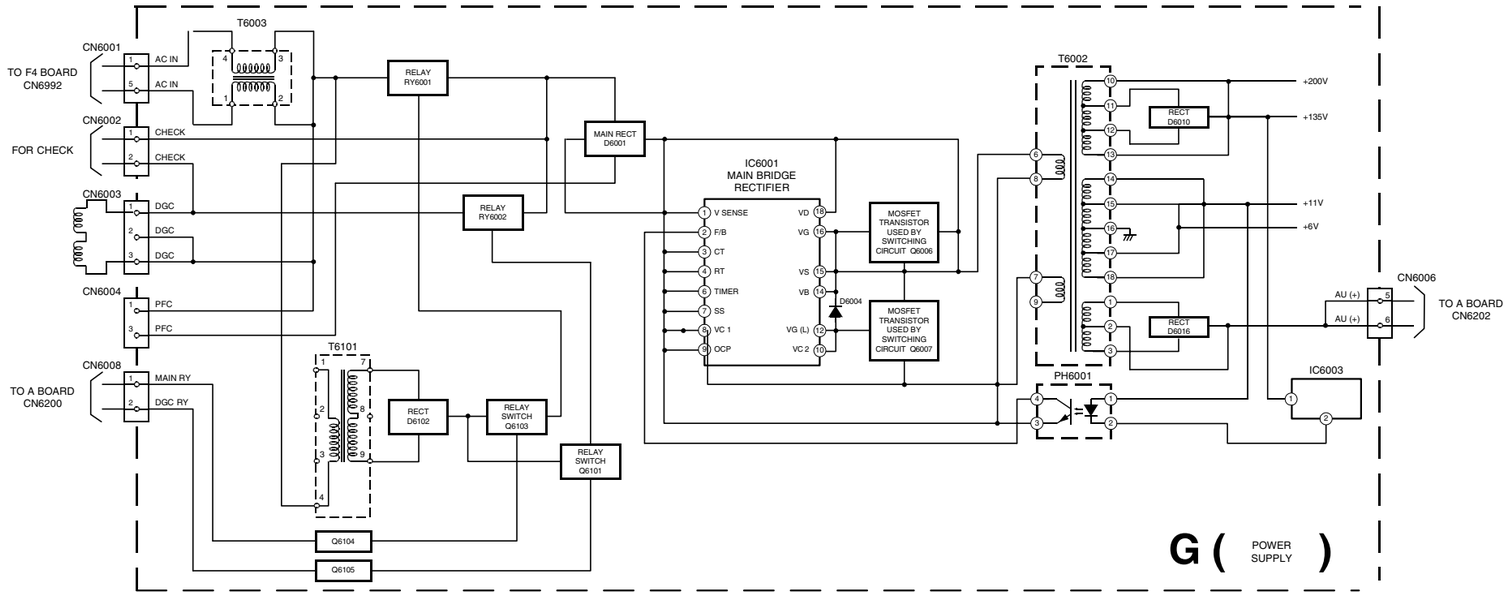




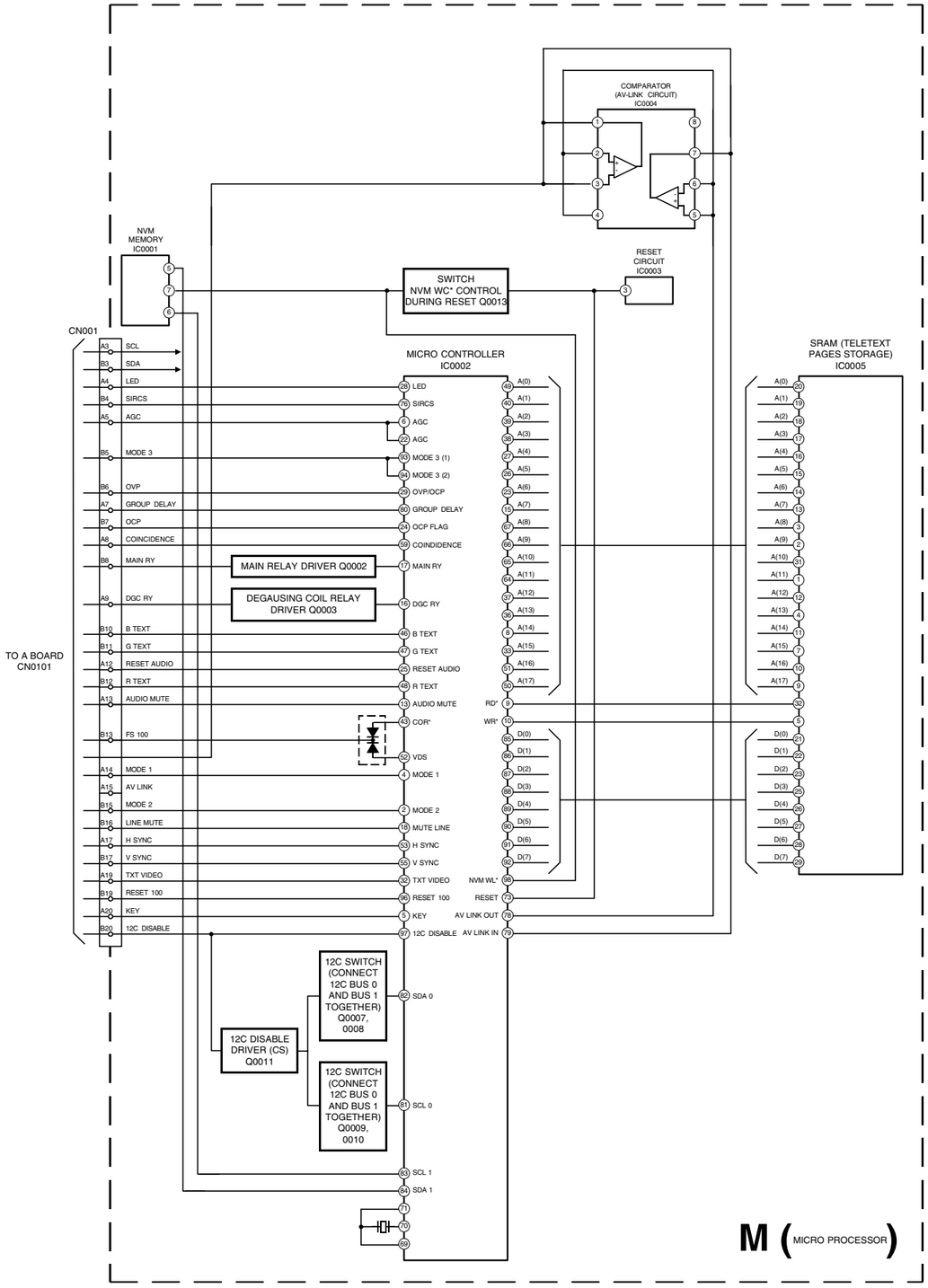


5-1. BLOCK DIAGRAMS (3)

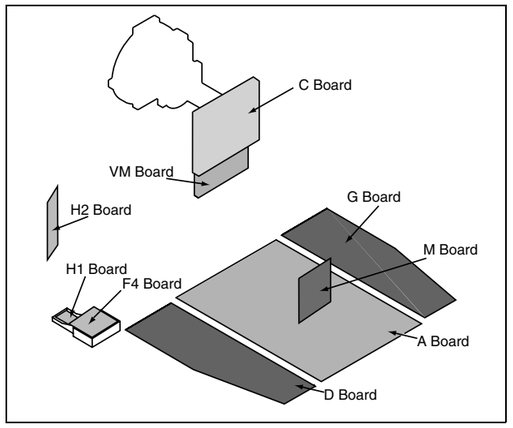




5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
- pF : µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

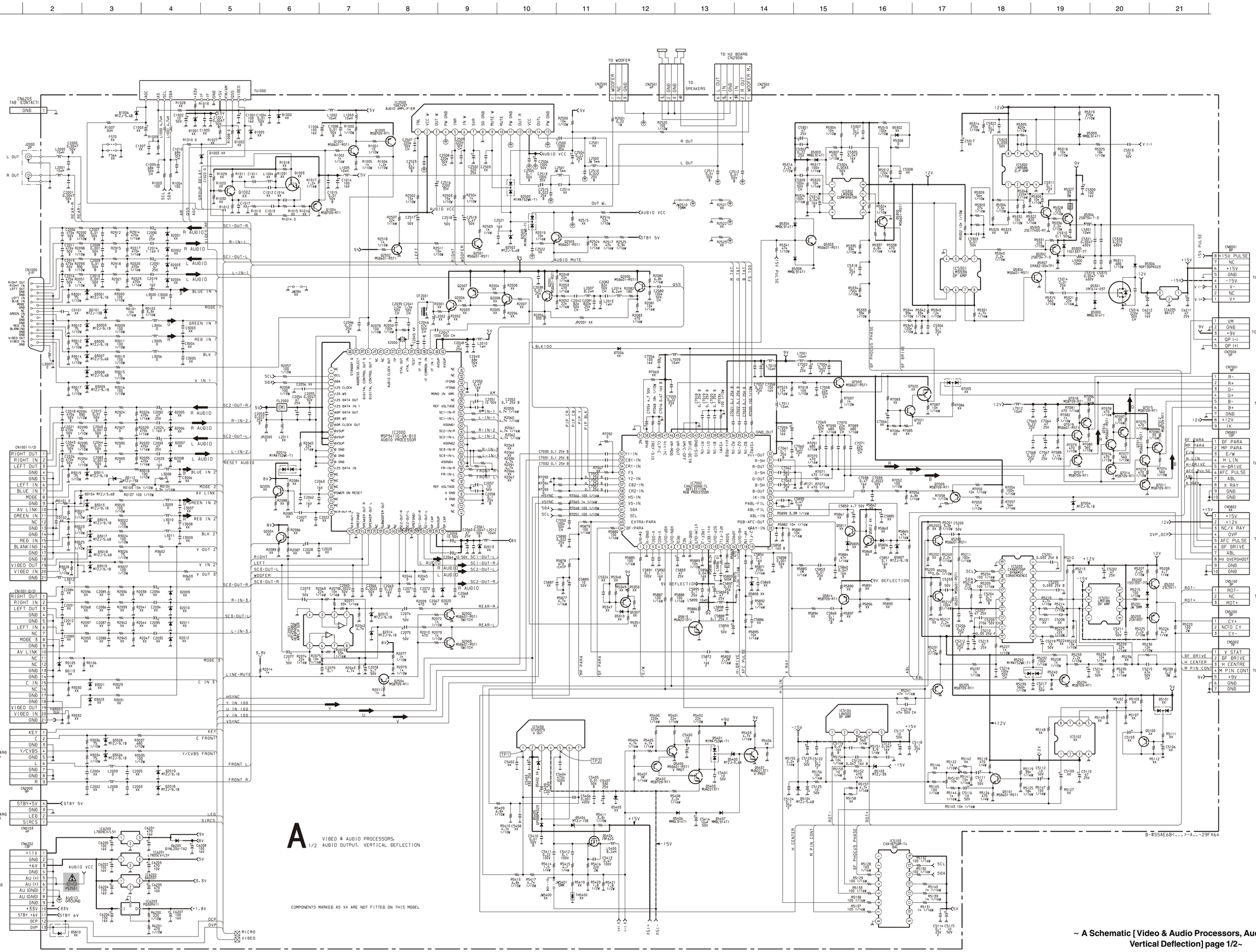
- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

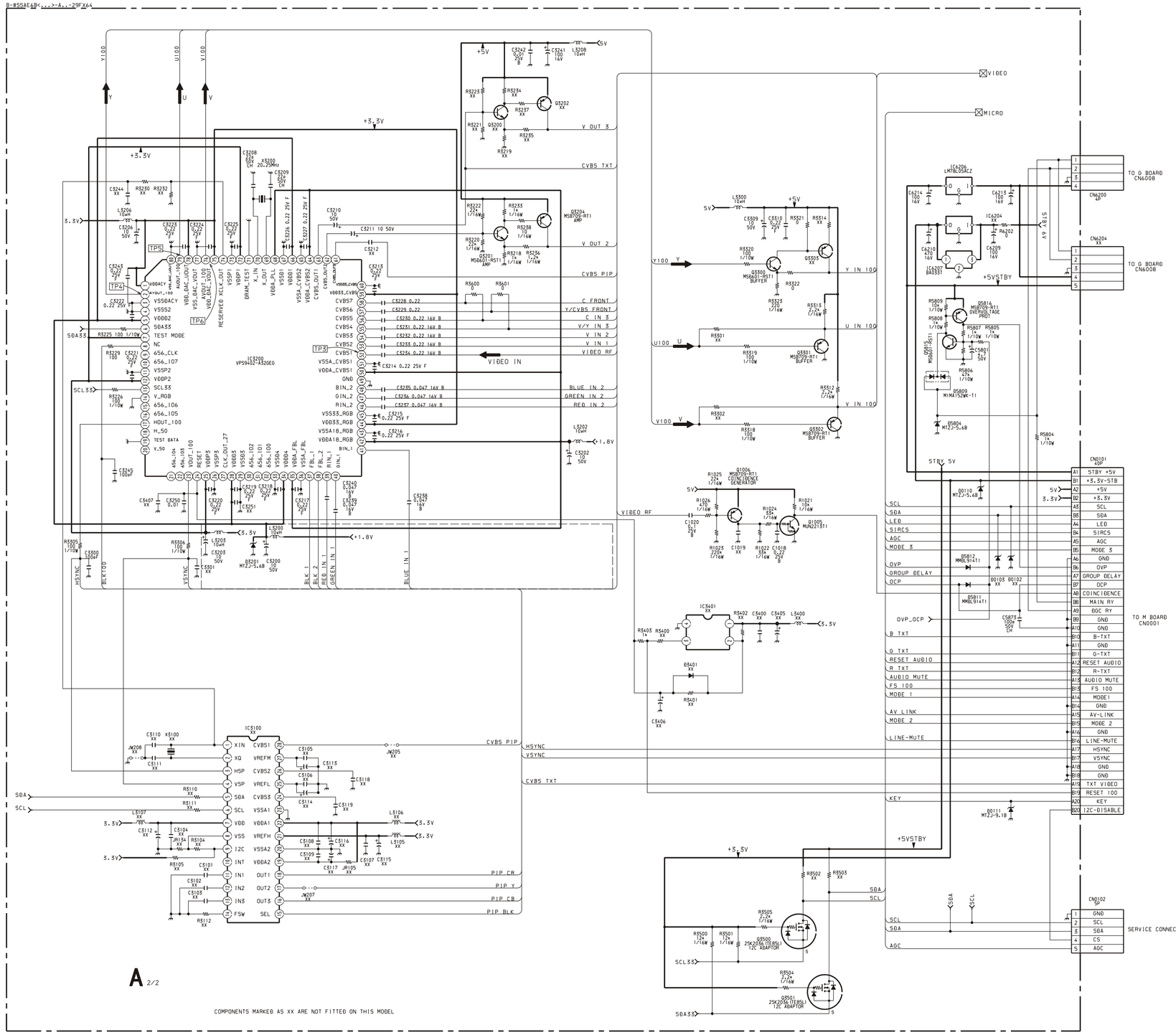
Reference Information

RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	**LF-8L**	: MICRO INDUCTOR
CAPACITOR	**TA**	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

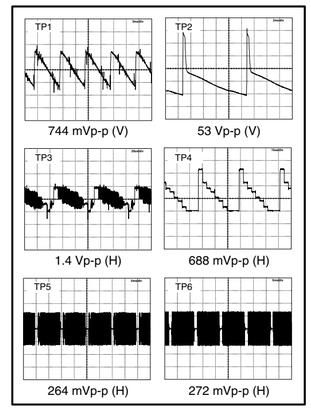
Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

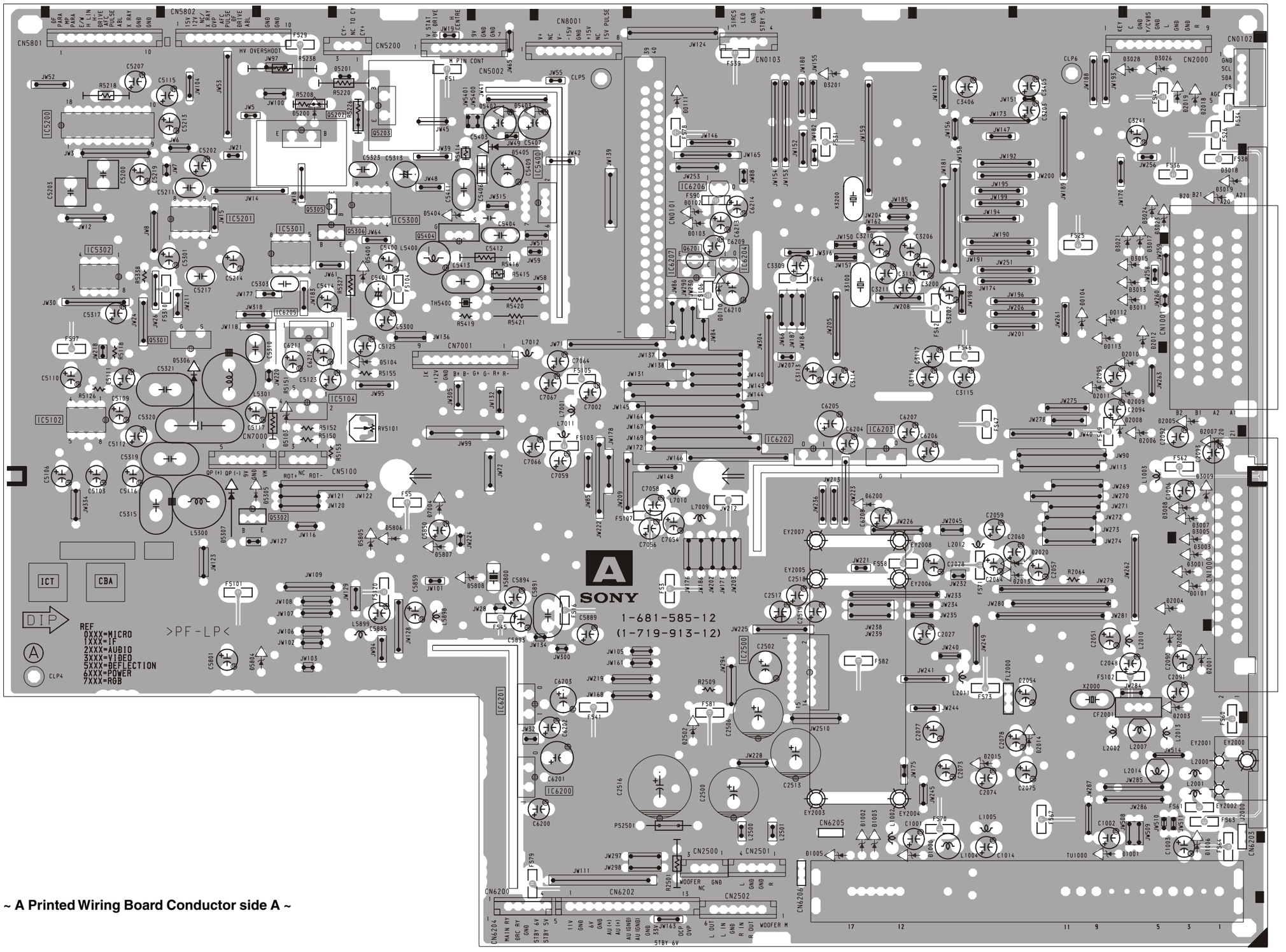

TO WOOFER
TO SPEAKERS
TO H2 BOARD CN2908
CN2500 5P
CN2501 4P
CN2502 6P
TU1000
IC2500 TDA7265 AUDIO AMPLIFIER
R OUT
L OUT
AUDIO VCC
AUDIO MUTE
STBY 5V
IC2000 MSP5611D-QA-B10 AUDIO PROCESSOR
IC2002 CXA2070AQ-TL DEFLECTION RGB PROCESSOR
IC2003 STV9379 V OUT
IC2004 TDA8362 DEFLECTION COMPARATOR
IC2005 CXA8072AP DYNAMIC CONVERGENCE
IC2006 LA6582 DP AMP
IC2007 LA6582 DP AMP
IC2008 CXA1870AM-T4 DEF
IC6200 L7809CV/LSY
IC6201 L7805CV/LSY
IC6202 BA3847
IC6203 PQ30RV11
CN1000 21P
CN1001 (1/2)
CN1001 (2/2)
CN2000 9P
CN2002 21P
CN0105 4P
CN6202 13P
CN8001 8P
CN7001 10P
CN7000 5P
CN8602 3P
CN9502 10P
CN9200 3P
CN9001 8P
TO D BOARD CN8612
TO VM BOARD CN7442
TO C BOARD CN7501
TO D BOARD CN8620
TO G2 BOARD CN9501
TO ROT COIL
TO G BOARD CN8810
TO G2 BOARD CN2906
TO G1 BOARD CN0981
BOARD 6006
AUDIO VCC
AUDIO GROUND
MICRO
VIDEO
R AUDIO
L AUDIO
BLUE IN
GREEN IN
RED IN
BLK
V IN 1
V IN 2
C IN
Y/CVBS FRONT
C FRONT
FRONT L
FRONT R
LINE-MUTE
HSYNC
VSYNC
RESET AUDIO
STBY 5V
LED
SIRCS
OCP
OVP
9V DEFLECTION
H-DRIVE
AFC PULSE
X RAY
ABL
H LIN
H CENTER
H PIN CONT
DF DRIVE
DF PHOCUS PHASE
15V PULSE
OVP_OCP
A
VIDEO & AUDIO PROCESSORS.
1/2 AUDIO OUTPUT. VERTICAL DEFLECTION
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
B-#SSAE6B<...>-A..-29FX64
~ A Schematic [Video & Audio Processors, Audio Output, Vertical Deflection] page 1/2~



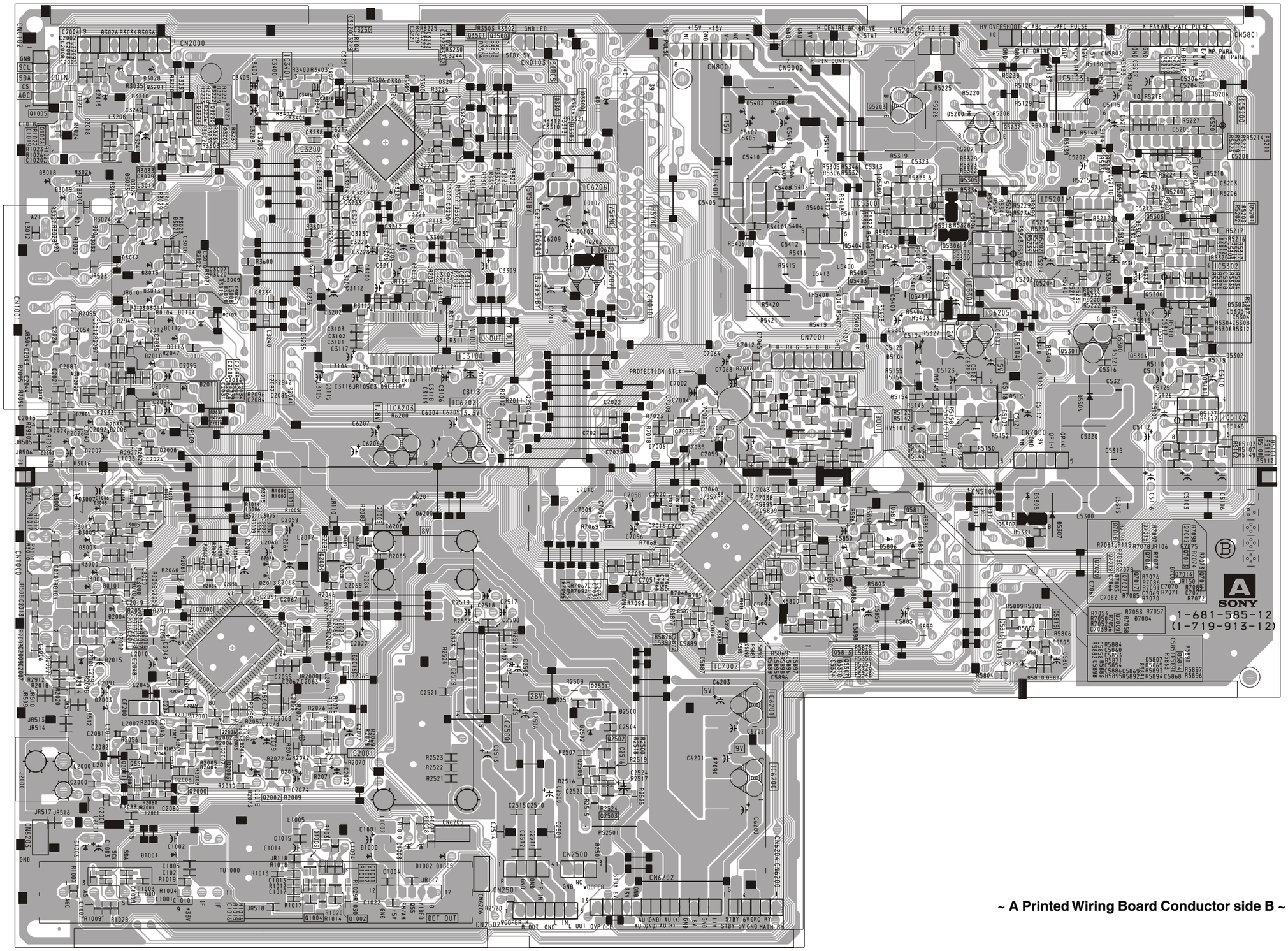
~ A Board Waveforms ~



~ A Schematic [Video & Audio Processors, Audio Output, Vertical Deflection] page 2/2~

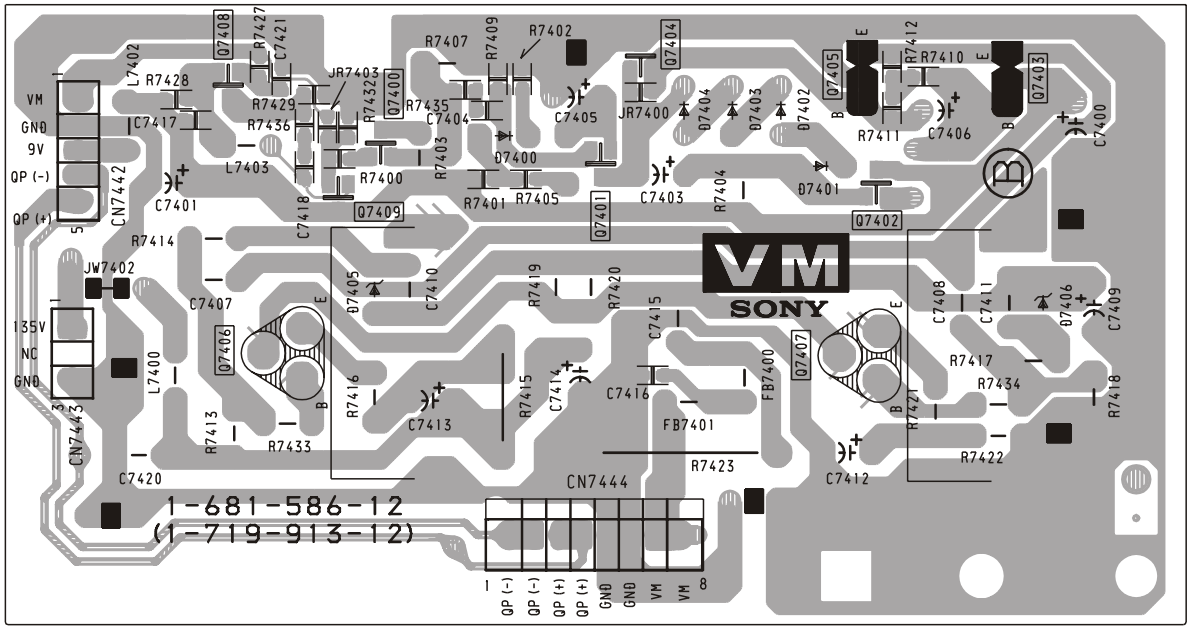


~ A Printed Wiring Board Conductor side A ~

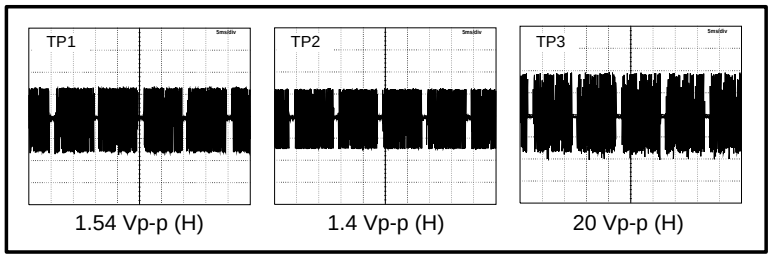


~ A Printed Wiring Board Conductor side B ~

~ VM Printed Wiring Board Conductor side ~



~ VM Board Waveforms ~



~ VM Board Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)
Q7400	5.0	5.7	8.7
Q7401	0.9	1.5	4.1
Q7402	5.5	6.1	8.9
Q7403	5.1	5.5	8.9
Q7404	4.7	4.1	0
Q7405	5.1	4.7	0
Q7406	134	133.8	68
Q7407	1.1	1.4	68
Q7408	6.3	5.6	2.5
Q7409	5.7	6.3	0.9

~ A Board Location Table (A Side) ~

DIODE		D2014	K - 9	D3005	M - 7	D3017	M - 4	D3028	M - 2	D5306	C - 5	D7004	F - 7	IC5301	D - 4	IC6206	H - 3
D0101	M - 7	D2015	K - 9	D3007	M - 7	D3018	N - 3	D3201	J - 2	D5307	C - 6	D5809	K - 8	IC5302	B - 4	IC6207	H - 4
D0104	L - 4	D2018	M - 2	D3008	M - 7	D3019	N - 3	D5103	D - 6	D5400	E - 4	IC		IC5400	G - 4	TRANSISTOR	
D0110	I - 4	D2019	M - 2	D3009	N - 7	D3021	M - 4	D5104	E - 5	D5404	F - 3	IC5104	D - 6	IC6201	G - 10	Q5202	E - 2
D0111	H - 2	D2502	H - 9	D3011	M - 4	D3023	M - 4	D5200	D - 2	D5405	F - 3	IC5200	B - 3	IC6202	I - 6	Q5301	C - 5
D0112	M - 4	D3001	M - 7	D3013	M - 4	D3024	M - 4	D5201	E - 2	D5807	F - 7	IC5201	C - 4	IC6203	J - 6	Q5306	E - 4
D0113	M - 5	D3003	M - 7	D3015	M - 4	D3026	M - 2	D5305	D - 6	D6200	J - 6	IC5300	E - 4	IC6205	D - 5	Q5404	F - 4
D1006	M - 10																

~ A Board Location Table (B Side) ~

DIODE		D2503	G - 9	D3024	B - 3	D5309	J - 3	IC5103	L - 3	TRANSISTOR		Q3201	C - 2	Q5300	M - 4	Q7003	H - 6
D0101	B - 7	D3001	B - 7	D3026	B - 2	D5400	K - 4	IC5104	K - 6	Q1000	C - 6	Q3202	C - 3	Q5301	L - 5	Q7009	K - 6
D0104	C - 5	D3003	B - 7	D3028	C - 2	D5401	J - 4	IC5200	M - 3	Q1001	D - 6	Q3204	C - 3	Q5302	K - 7	Q7011	J - 6
D0110	G - 4	D3005	B - 7	D3201	F - 2	D5404	J - 3	IC5201	L - 4	Q1004	D - 10	Q3300	F - 3	Q5303	M - 4	Q7012	J - 5
D0111	G - 2	D3007	B - 6	D5103	L - 6	D5405	I - 3	IC5300	J - 3	Q1005	B - 2	Q3301	F - 3	Q5304	M - 5	Q7013	J - 6
D0112	C - 5	D3008	B - 6	D5104	J - 5	D5809	K - 8	IC5301	K - 4	Q1006	B - 3	Q3302	F - 3	Q5305	K - 3	Q7014	J - 6
D0113	C - 5	D3009	B - 6	D5200	K - 2	D5811	L - 8	IC5302	M - 4	Q2000	C - 9	Q3500	F - 3	Q5306	K - 4	Q7015	I - 5
D1006	B - 10	D3011	C - 4	D5202	L - 4	D5812	L - 8	IC5400	I - 3	Q2002	D - 9	Q3501	F - 3	Q5400	J - 4	Q7016	I - 5
D2014	C - 9	D3013	C - 4	D5300	L - 5	D6200	F - 7	IC6200	I - 9	Q2003	D - 9	Q5101	M - 5	Q5401	K - 4	Q7017	I - 6
D2015	D - 9	D3015	C - 4	D5303	N - 4	IC		IC6201	I - 8	Q2004	E - 7	Q5200	M - 4	Q5402	J - 5	Q7018	I - 5
D2016	E - 8	D3017	B - 4	D5304	M - 4	IC2000	C - 8	IC6202	F - 6	Q2005	E - 7	Q5201	N - 3	Q5403	J - 4	Q7019	I - 5
D2018	B - 2	D3018	B - 3	D5305	L - 6	IC2001	D - 9	IC6203	E - 6	Q2501	G - 8	Q5202	K - 3	Q5404	J - 4		
D2019	B - 2	D3019	B - 3	D5306	L - 5	IC2500	F - 8	IC6205	K - 5	Q2502	G - 9	Q5203	J - 2	Q5813	J - 8		
D2500	G - 9	D3021	C - 4	D5307	L - 7	IC3100	E - 5	IC6206	G - 3	Q2503	G - 9	Q5204	L - 4	Q5815	L - 8		
D2502	G - 9	D3023	B - 3	D5308	M - 4	IC3200	E - 3	IC6207	G - 4	Q3200	C - 3	Q5205	M - 3	Q5816	L - 8		

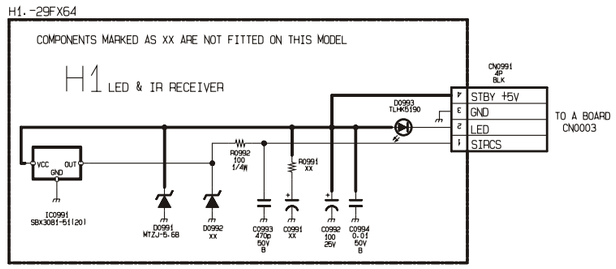
~ A Board Semiconductor Voltage Table ~

Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
Ref	**(e)**	**(b)**	**(c)**	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	0.8	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
Q2000	4.2	4.8	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

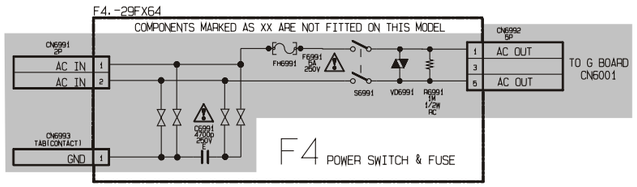
~ A Board IC Voltage Table ~

IC Voltage Table														
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC3100	1	1.3	IC5103	6	1.8	IC5201	5	9.3	IC5400	6	13.7	IC7002	32	8.9
	2	1.7		7	2		6	0.5		7	1.4		33	0
	3	2.6		8	0		7	12.1	IC7002	1	3.6		34	4.7
	4	0		9	3.1		8	-14.1		2	0		35	4.7
	5	2.5		10	3	IC5300	1	6		3	4.4		36	4.7
	6	3.3		11	5		2	6		4	4.8		37	8.9
	7	0		12	5		3	6		5	3.5		38	0
	8	0		13	5		4	0		6	3.4		39	4.8
	9	1.1		14	0		5	6		7	7.6		40	4.8
	10	1.1		15	0		6	6		8	0		41	4.8
	11	0		16	5		7	6		9	0		42	0
	12	0	IC5200	1	4.8		8	12		10	0.4		43	0
	13	0		2	4.9	IC5301	1	1.7		11	1.8		44	0
	14	0		3	4.8		2	8.5		12	0.4		45	6.3
	15	0.5		4	4.8		3	6.5		13	0.9		46	8.9
	16	0.3		5	5		4	0		14	5		47	8.9
	17	0.3		6	5		5	6.5		15	2.5		48	6
	18	0.3		7	5		6	7.1		16	0		49	2.5
	19	3.3		8	5		7	0.4		17	3		50	4.1
	20	0		9	4.9		8	12		18	2.7		51	0
	21	3.3		10	12.1	IC5302	1	0		19	3.9		52	6
	22	3.3		11	4.1		2	5.8		20	0		53	5.8
	23	0		12	5		3	6.3		21	6.1		54	5.8
	24	3.2		13	5		4	0		22	2.7		55	0.4
	25	1.2		14	1.9		5	6.6		23	8.8		56	5.8
	26	3.2		15	1.1		6	6.5		24	0		57	5.8
	27	2.1		16	0		7	0.4		25	4.3		58	5.8
	28	0.3		17	0		8	12		26	3.2		59	0.3
IC5103	1	3.3		18	0	IC5400	1	1.4		27	5.2		60	0
	2	3.3	IC5201	1	9.3		2	13.2		28	0.3		61	0
	3	1.9		2	3.8		3	-12.5		29	4.9		62	2.9
	4	2.6		3	3.8		4	-15.4		30	3.4		63	3.7
	5	2.5		4	-15.4		5	-0.4		31	5.6			

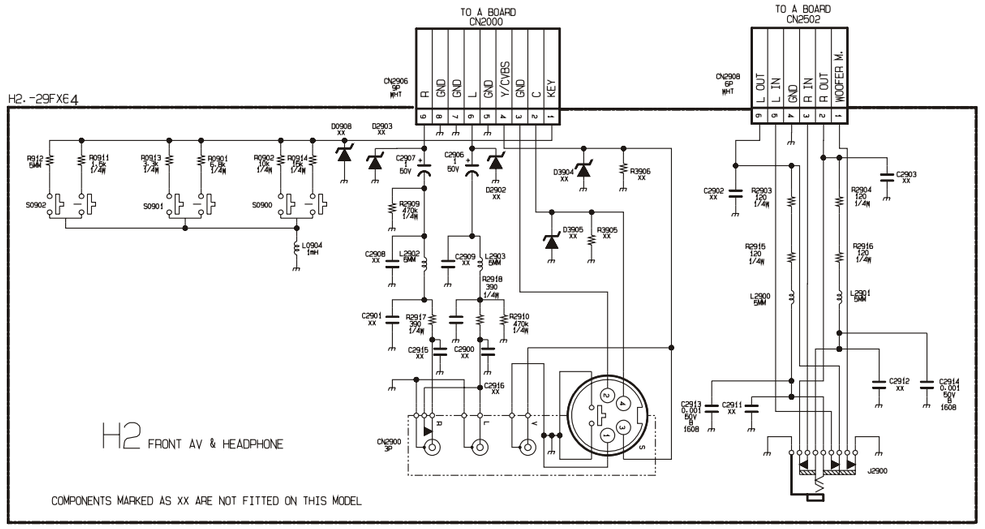
~ H1 Board Schematic Diagram [LED & IR Receiver] ~



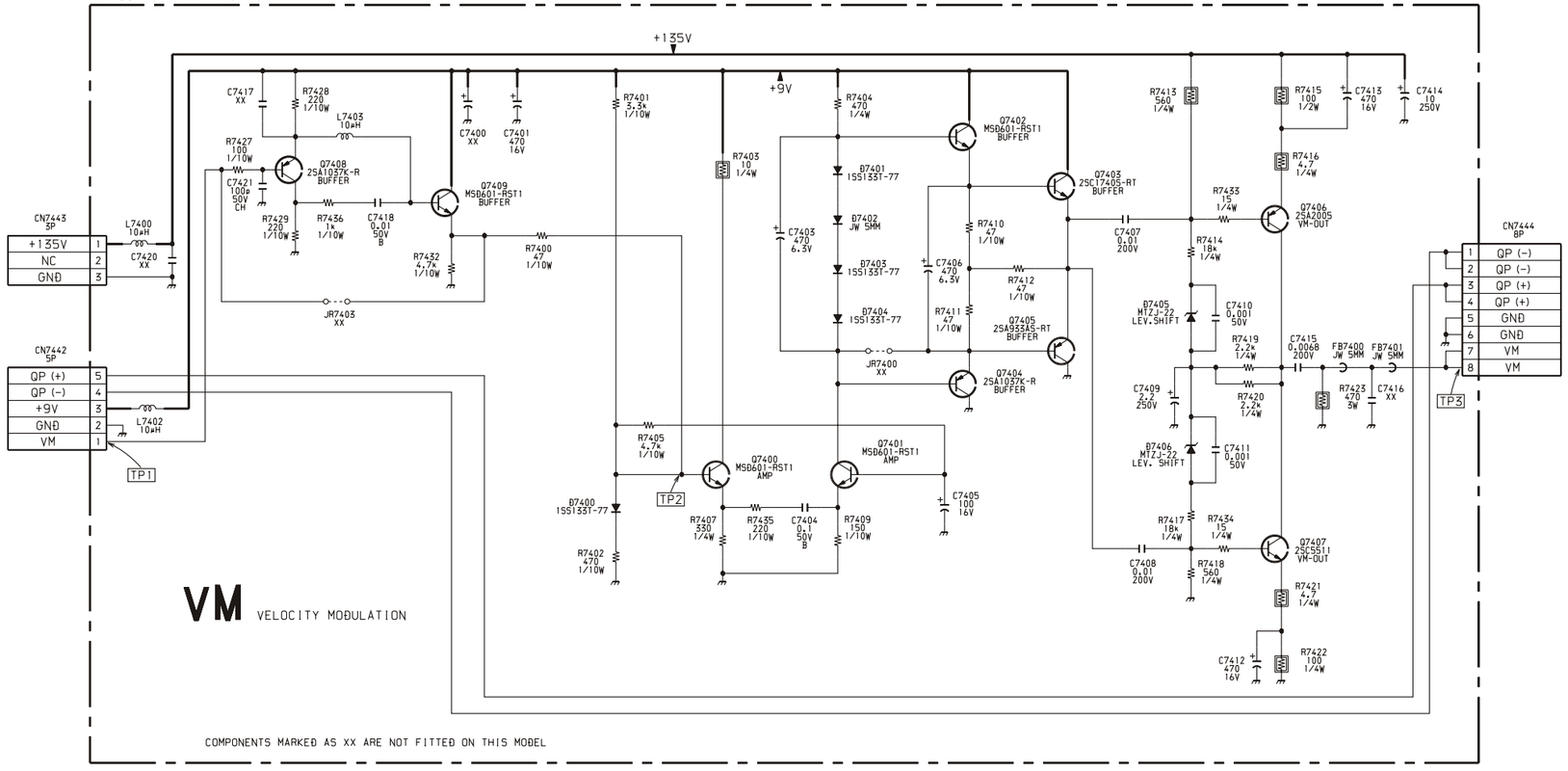
~ F4 Board Schematic Diagram [Power Switch & Fuse] ~



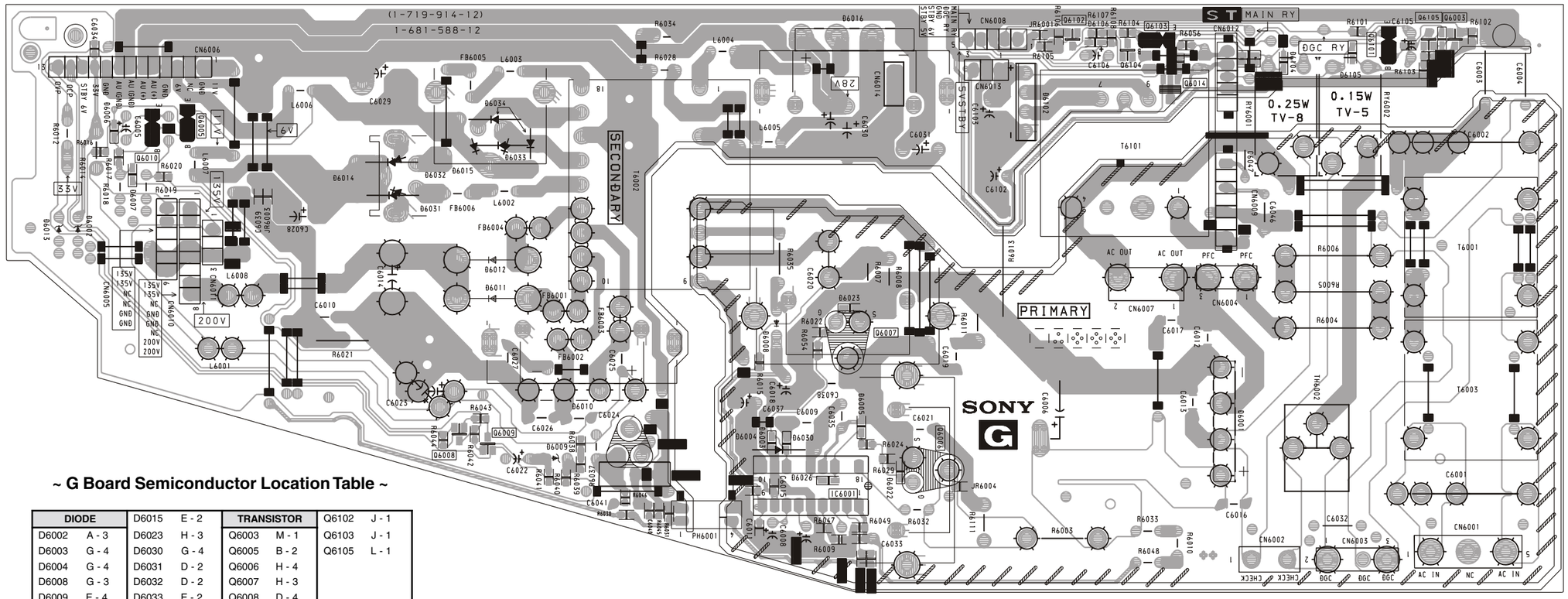
~ H2 Board Schematic Diagram [Front AV & Headphone] ~



B-#SSAE6B<...>-VM.-29FX64



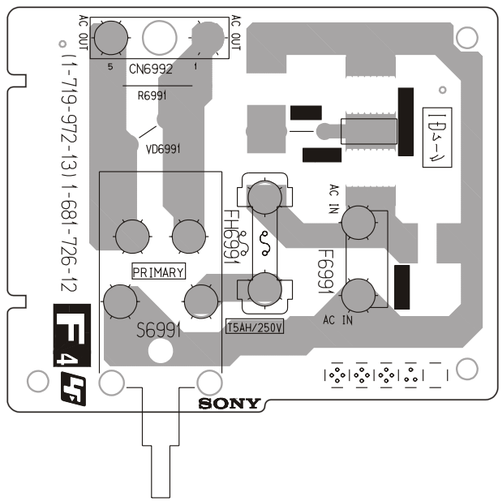
~ VM Board Schematic Diagram [Velocity Modulation] ~



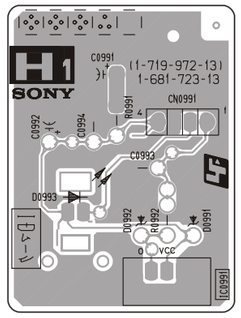
~ G Printed Wiring Board Conductor side ~

~ G Board Semiconductor Location Table ~

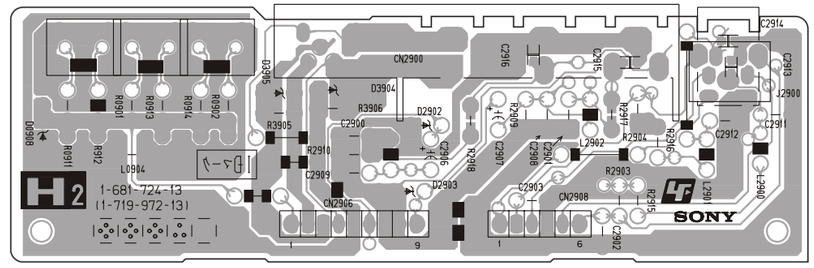
DIODE		D6015	E - 2	TRANSISTOR		Q6102	J - 1
D6002	A - 3	D6023	H - 3	Q6003	M - 1	Q6103	J - 1
D6003	G - 4	D6030	G - 4	Q6005	B - 2	Q6105	L - 1
D6004	G - 4	D6031	D - 2	Q6006	H - 4		
D6008	G - 3	D6032	D - 2	Q6007	H - 3		
D6009	E - 4	D6033	E - 2	Q6008	D - 4		
D6010	E - 4	D6034	E - 2	Q6009	E - 4		
D6011	E - 3	IC		Q6010	B - 2		
D6012	E - 3	IC6001	G - 5	Q6014	J - 2		
D6013	A - 3			Q6101	L - 1		



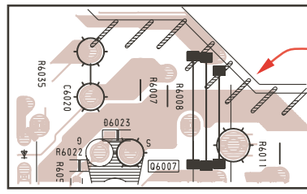
~ F4 Printed Wiring Board Conductor side ~



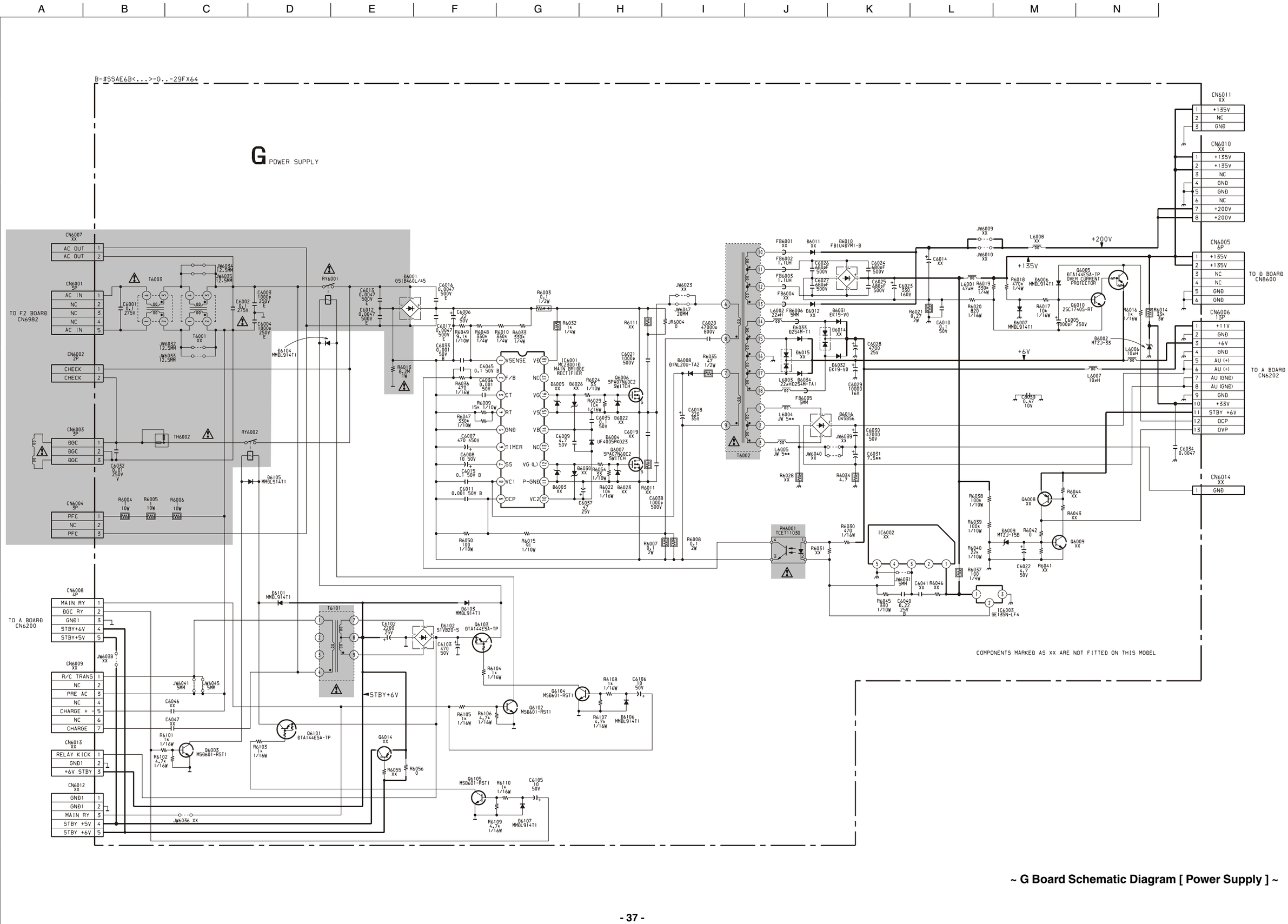
~ H1 Printed Wiring Board Conductor side ~



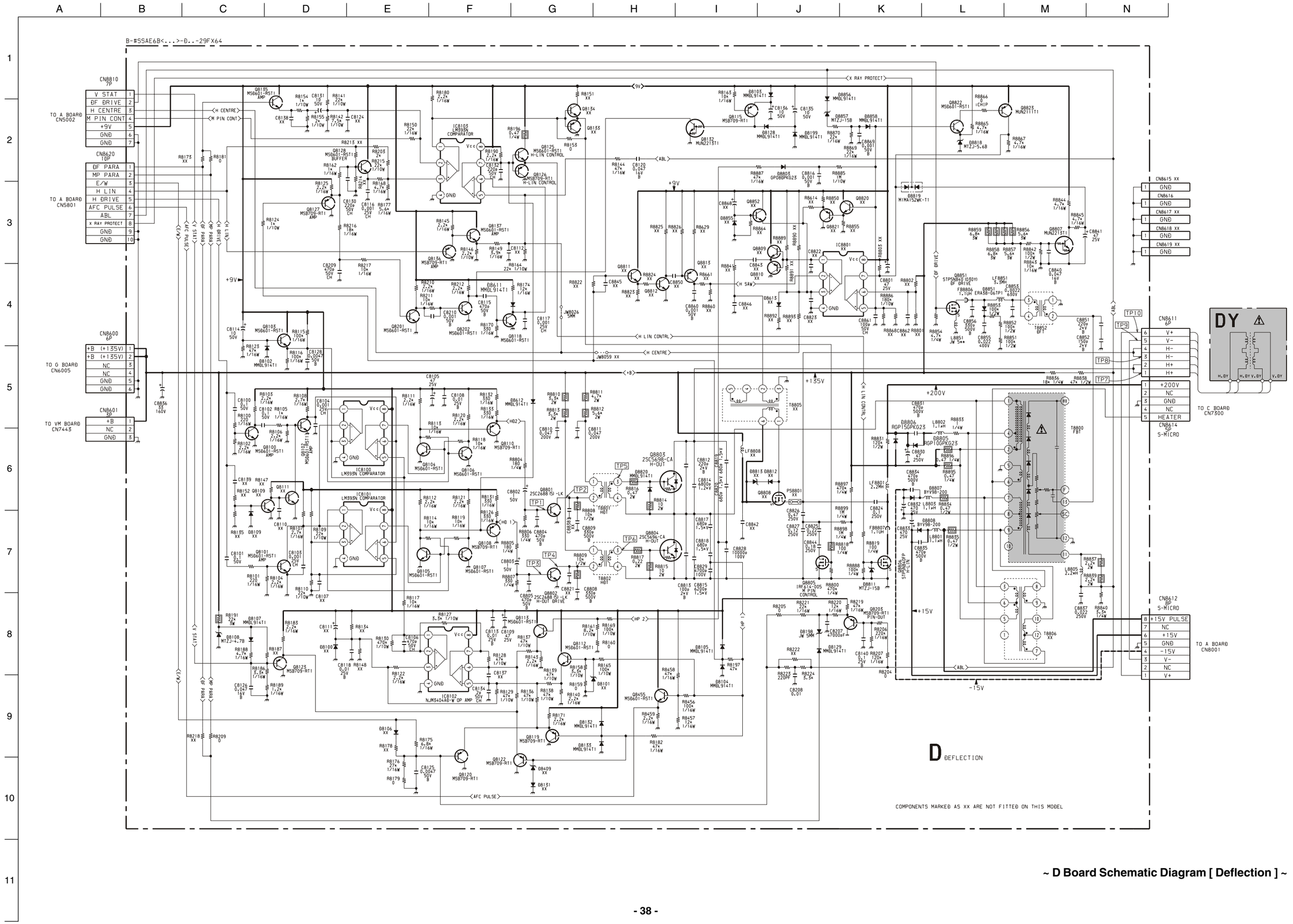
~ H2 Printed Wiring Board Conductor side ~



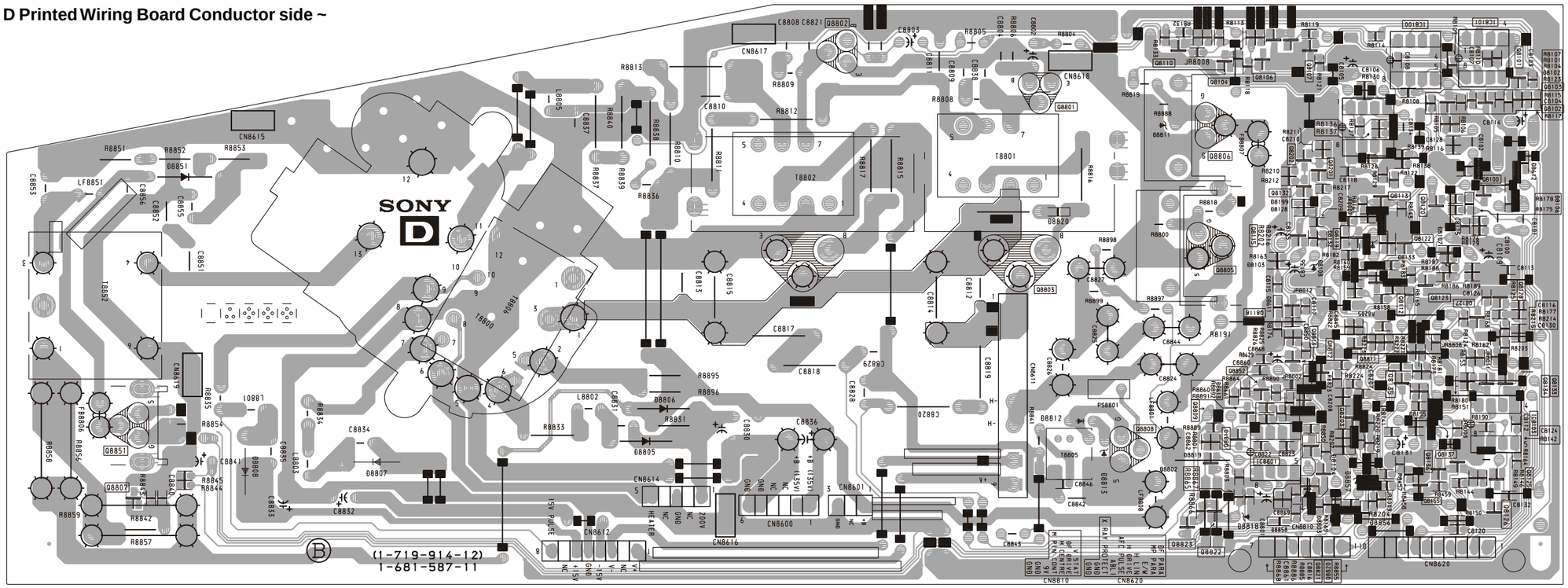
Note :
Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.



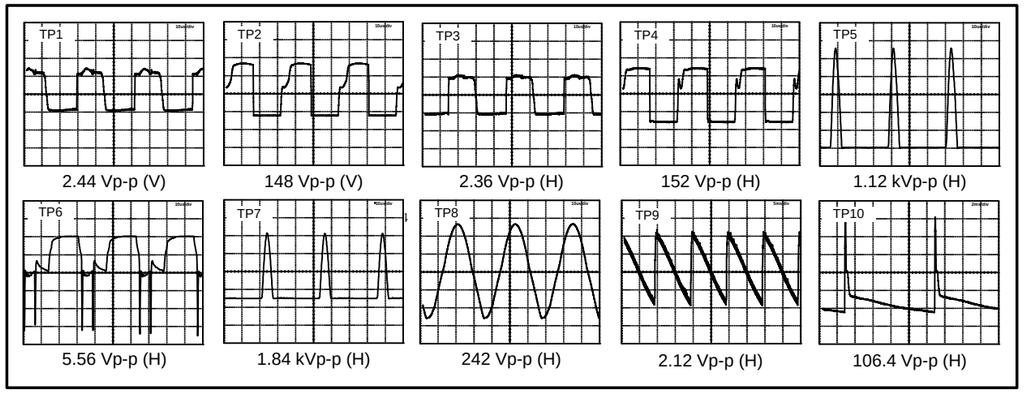
~ G Board Schematic Diagram [Power Supply] ~


B-#SSAE6B<...>-B..-29FX64
CN8810 7P
V STAT 1
ĐF DRIVE 2
H CENTRE 3
M PIN CONT 4
+9V 5
GNĐ 6
GNĐ 7
TO A BOARD CN5002
CN8620 10P
ĐF PARA 1
MP PARA 2
E/W 3
H LIN 4
H ĐRIVE 5
AFC PULSE 6
ABL 7
X RAY PROTECT 8
GNĐ 9
GNĐ 10
TO A BOARD CN5801
CN8600 6P
+B (+135V) 1
+B (+135V) 2
NC 3
NC 4
GNĐ 5
GNĐ 6
TO G BOARD CN6005
CN8601 3P
+B 1
NC 2
GNĐ 3
TO VM BOARD CN7443
CN8615 XX
CN8616
CN8617 XX
CN8618 XX
CN8619 XX
CN8611 6P
V+ 6
V- 5
H- 4
H- 3
H+ 2
H+ 1
TO C BOARD CN7300
CN8614 5P S-MICRO
+200V 1
NC 2
GNĐ 3
NC 4
HEATER 5
CN8612 8P S-MICRO
+15V PULSE 8
NC 7
+15V 6
GNĐ 5
-15V 4
V- 3
NC 2
V+ 1
TO A BOARD CN8001
TP5
TP2
TP1
TP3
TP4
TP6
TP10
TP9
TP8
TP7
IC8103 LM393N COMPARATOR
IC8101 LM393N COMPARATOR
IC8100 LM393N COMPARATOR
IC8102 NJM5404AĐ-W OP AMP
IC8801
Q8803 2SC5698-CA H-OUT
Q8804 2SC5696-CA H-OUT
Q8801 (5) -LK
Q8802 2SC2688 (5) -LK H-OUT DRIVE
Q8805 IRFU214-005 MP PIN CONTROL
Q8851 STP5NB40 (O5OY) ĐF DRIVE
Q8807 MUN2215T1
Q8823 MUN2111T1
Q8822 MSD601-RST1 +CHIP
Q8125 MSD601-RST1 H-LIN CONTROL
Q8126 MSB709-RT1 H-LIN CONTROL
Q8128 MSD601-RST1 BUFFER
Q8127 MSB709-RT1 AMP
Q8136 MSB709-RT1 AMP
Q8137 MSD601-RST1 AMP
Q8135 MSD601-RST1 AMP
Q8123 MSB709-RT1
Q8119 MSB709-RT1
Q8122 MSB709-RT1
Q8120 MSB709-RT1
Q8107 MSD601-RST1
Q8108 MSB709-RT1
Q8110 MSB709-RT1
Q8112 MSD601-RST1
Q8113 MSD601-RST1
Q8455 MSD601-RST1
Q8201 MSD601-RST1
Q8202 MSD601-RST1
Q8203 MSD601-RST1
Q8204 MSD601-RST1
Q8205 MSD601-RST1
Q8206 MSD601-RST1
Q8207 MSD601-RST1
Q8208 MSD601-RST1
Q8209 MSD601-RST1
Q8210 MSD601-RST1
Q8211 MSD601-RST1
Q8212 MSD601-RST1
Q8213 MSD601-RST1
Q8214 MSD601-RST1
Q8215 MSD601-RST1
Q8216 MSD601-RST1
Q8217 MSD601-RST1
Q8218 MSD601-RST1
Q8219 MSD601-RST1
Q8220 MSD601-RST1

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~

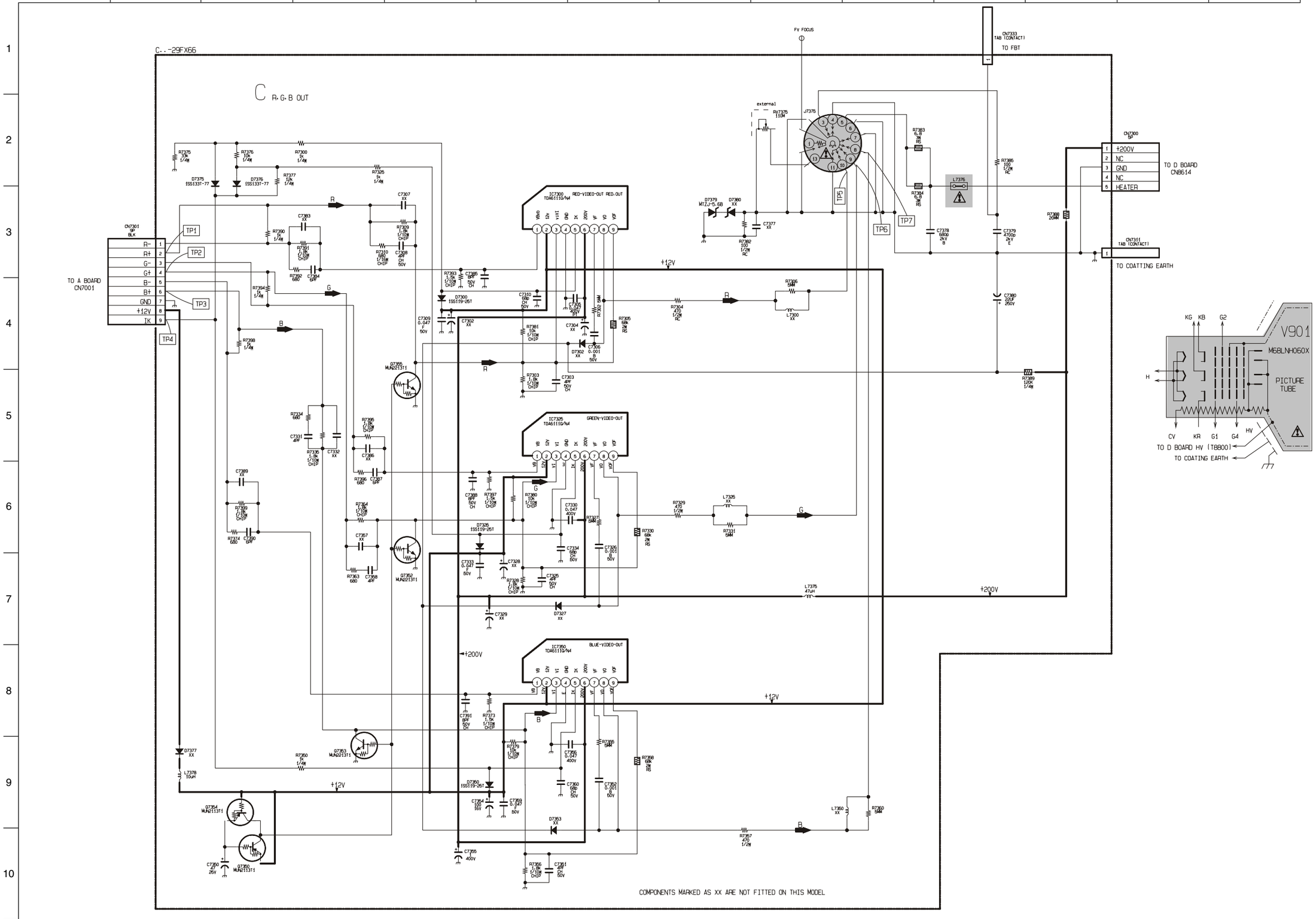


~ D Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC8100	1	0.3
	2	4.3
	3	4.1
	5	4.1
	6	3.0
	7	0.4
IC8101	1	0.3
	2	4.3
	3	4.4
	5	4.4
	6	3.0
	7	0.4
IC8102	1	4.1
	2	0.4
	3	0.4
	5	0.4
	6	0.4
	7	0.4
IC8103	1	2.5
	2	2.1
	3	1.7
	5	1.6
	6	1.0
	7	1.1

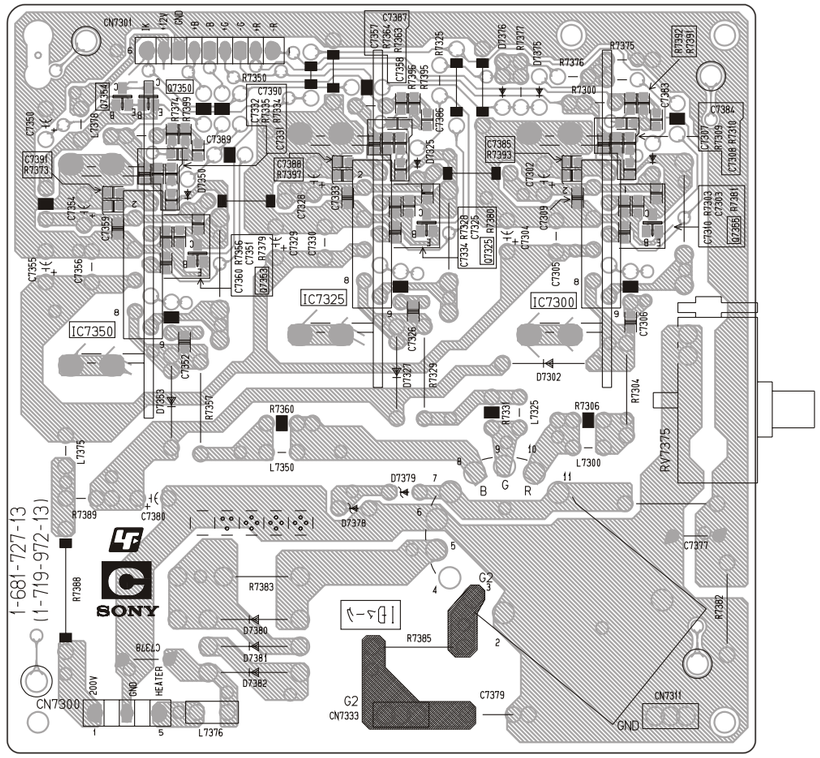
~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5

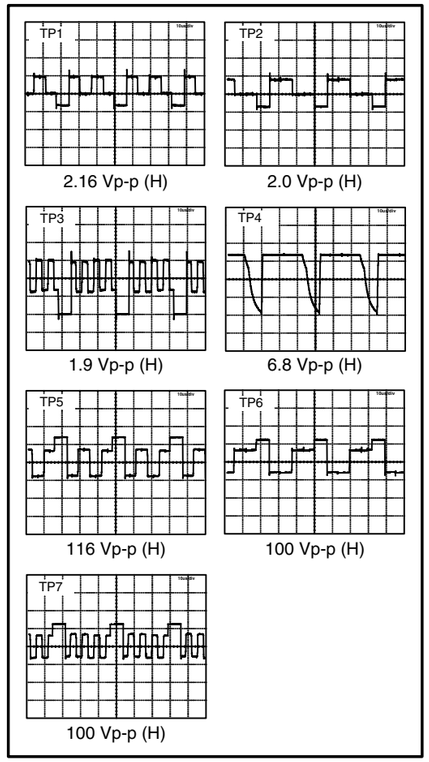


~ C Board Schematic Diagram [R-G-B Out] ~

~ C Printed Wiring Board Conductor side ~



~ C Board Waveforms ~



~ C Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)
Q7350	12	11.98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
Q7355	0	0	3.8

~ C Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC7300	1	3.9
	3	3.8
	5	7.5
	6	200
	7	140
	8	153
	9	140
IC7325	1	3.9
	3	3.8
	5	7.7
	6	200
	7	140
	8	153
	9	140
IC7350	1	3.9
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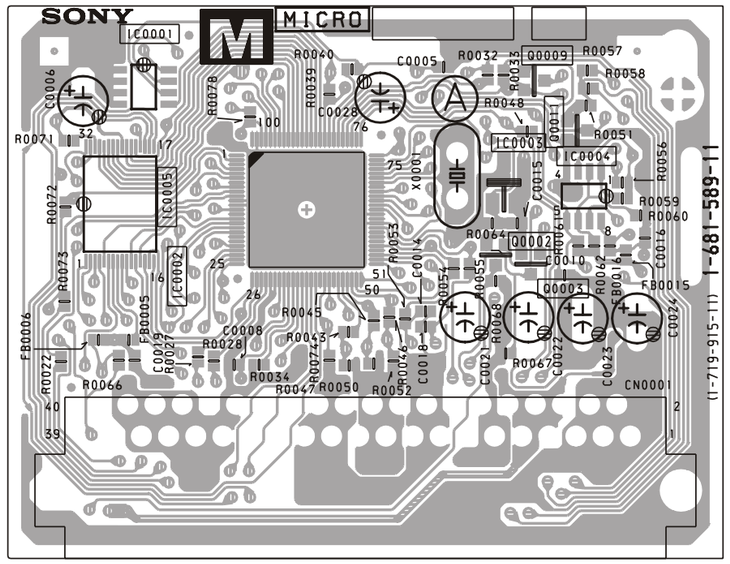
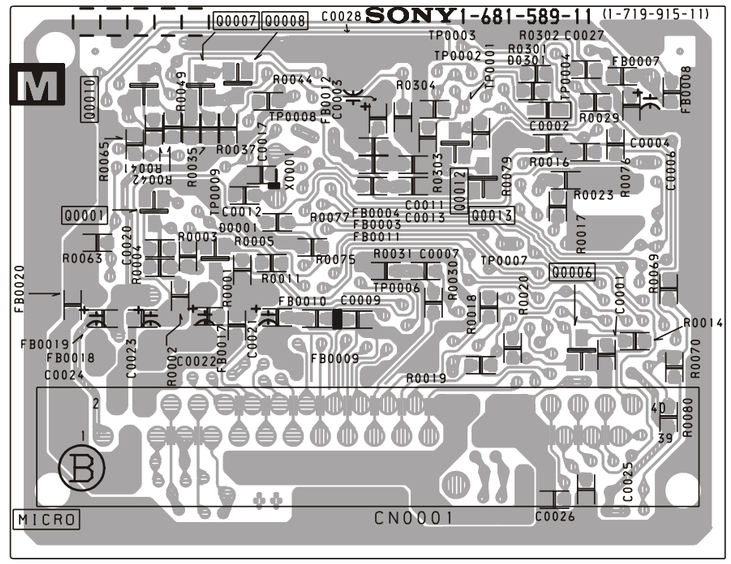
	5	7.5
	6	200
	7	139
	8	148
	9	138

~ M Printed Wiring Board Conductor side A ~



~ M Printed Wiring Board Conductor side B ~



B-#SSAE6B<...>-M.-29FX64

M MICRO PROCESSOR

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

CN0001 40P

+5V-STB	A1
+3.3V-STB	B1
+5V	A2
+3.3V	B2
SCL	A3
SDA	B3
LED	A4
SIRCS	B4
AGC	A5
MODE 3	B5
GND	A6
OVP	B6
GROUP DELAY	A7
OCP	B7
COINCIDENCE	A8
MAIN RY	B8
DGC RY	A9
GND	B9
GND	A10
B-TXT	B10
GND	A11
G-TXT	B11
RESET AUDIO	A12
R-TXT	B12
AUDIO MUTE	A13
FS 100	B13
MODE1	A14
GND	B14
AV-LINK	A15
MODE2	B15
GND	A16
LINE-MUTE	B16
HSYNC	A17
VSYNC	B17
GND	A18
GND	B18
TXT VIDEO	A19
RESET 100	B19
KEY	A20
I2C-DISABLE	B20

TO_A BOARD CN0101

IC0002 SAA5665HL/M1D/0558 MICRO CONTROLLER

IC0001 M24C16-WMN6T NVM MEMORY

IC0003 PST573IMT RESET CIRCUIT

IC0004 LM393DT COMPARATOR

IC0005 K6T2008V2A SRAM

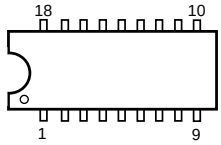
Q0001 XX, Q0002 MUN2111T1 MAIN RELAY DRIVER, Q0003 MUN2111T1 DEGAUSING DRIVER, Q0006 MSD601-RST1, Q0007 DTC114TKA I2C SWITCH, Q0008 DTC114TKA I2C SWITCH, Q0009 DTC114TKA I2C SWITCH, Q0010 DTC114TKA I2C SWITCH, Q0011 MSB601-RST1 I2C DISABLE DRIVER, Q0012 MUN2111T1, Q0013 MUN2211T1 RESET

D0001 RB705D, D0301 UDZS-6.2B

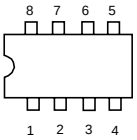
X0001 12MHz

5-4. SEMICONDUCTORS

CXAB070AP
MCZ3001D



LM318P
LM358N
LM393DT
LM393N
M24C16-MN6T(A)



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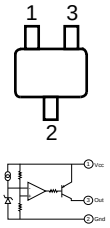
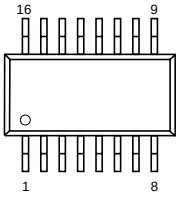
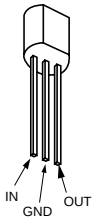


CXA1875AM-T4



(TOP VIEW)

LM78L05ACZ



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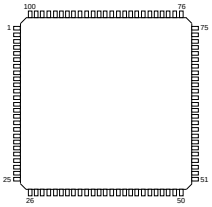

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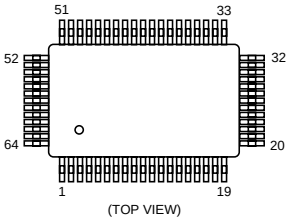

(TOP VIEW)

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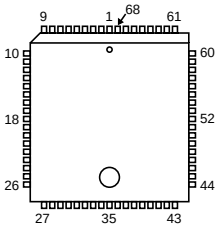

(TOP VIEW)

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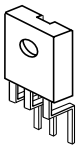

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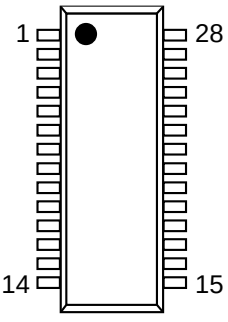

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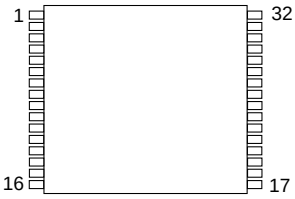

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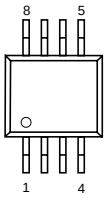

(TOP VIEW)

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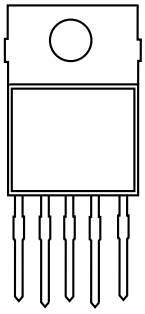
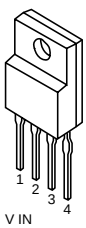
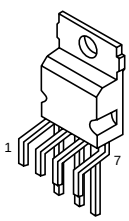


PQ30RV11



1 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

STV9379



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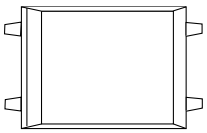

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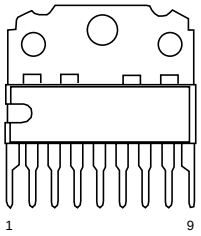

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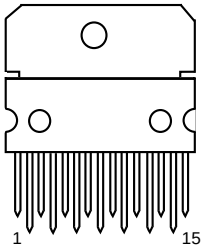

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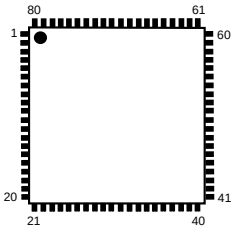

(TOP VIEW)

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IRF620
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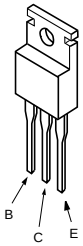
2SC5511



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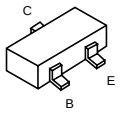

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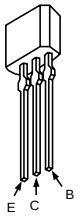

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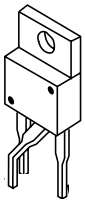

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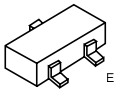
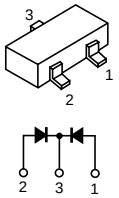


RB705D



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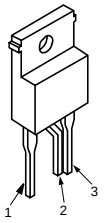
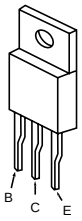


1 V OUT SENSE
2 COLLECTOR
3 GND

2SA1837(LBS2S0N)



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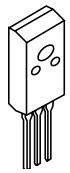

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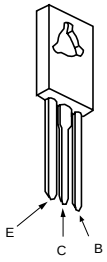
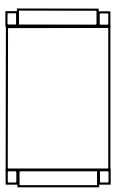


BAS216



BAS316-115
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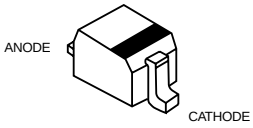
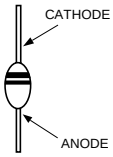


BYV98-200-RAS 15/12



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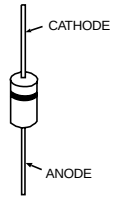

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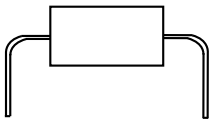

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ERA85-009
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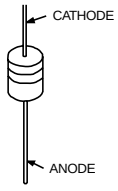
MTZJ-13B
MTZJ-33B
MTZJ-3.6A
MTZJ-4.7C
MTZJ-T-77-22
RD15ES-B2
RD39ES-B2
RD5.6ESB2
1SS119-25
1SS133T-77



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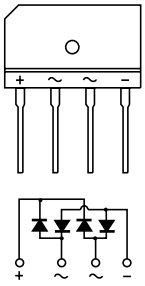
RBV-406B
S1VB40



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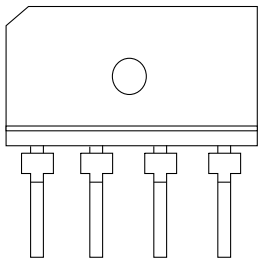

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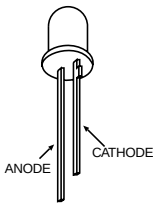
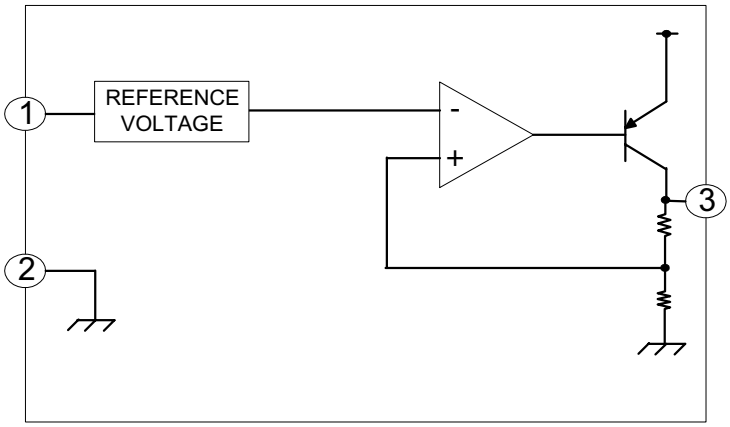
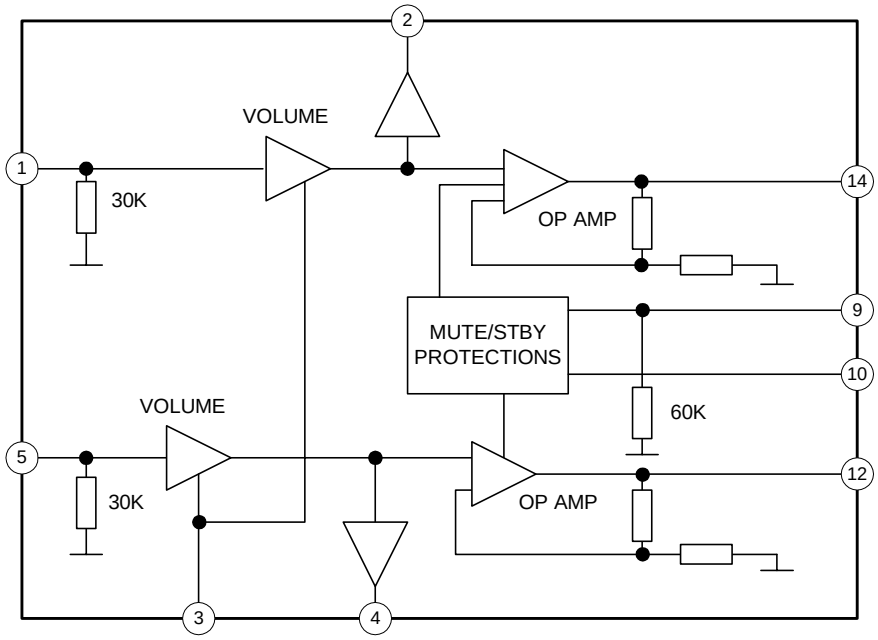


5-5 IC BLOCK DIAGRAMS

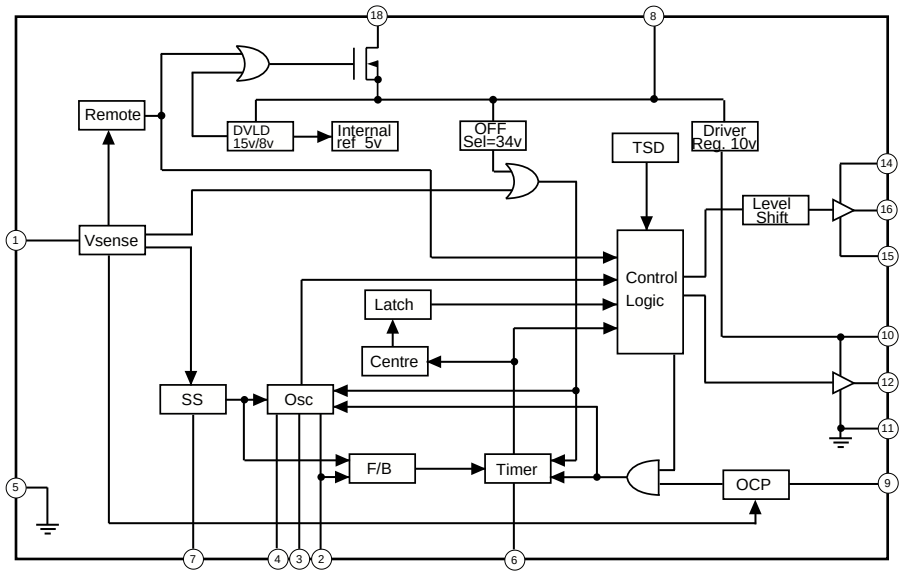
A BOARD IC6202/IC6207/IC6205 BA033T/BA12T



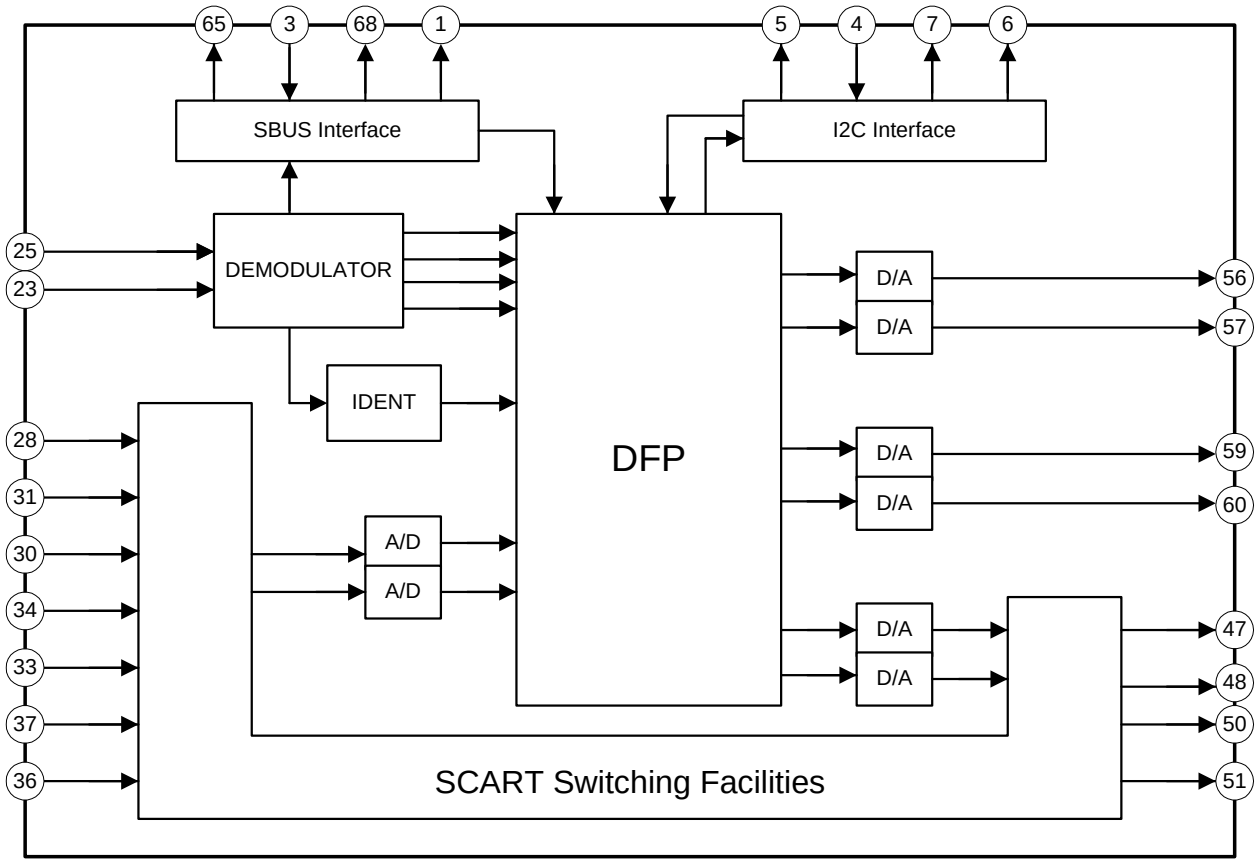
A BOARD IC2500 TDA7497



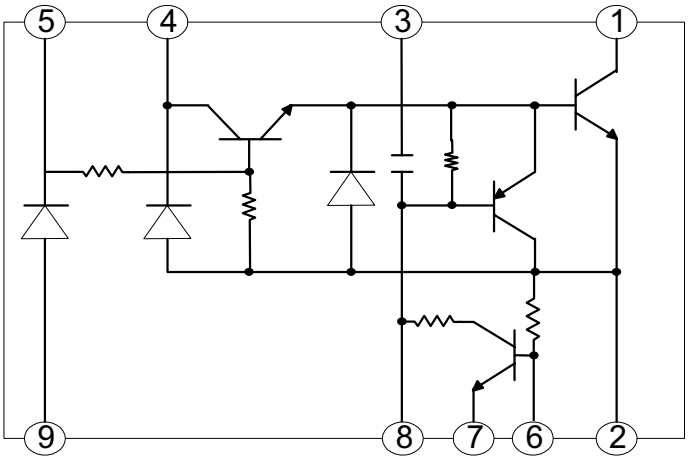
G BOARD IC6001 MCZ3001D



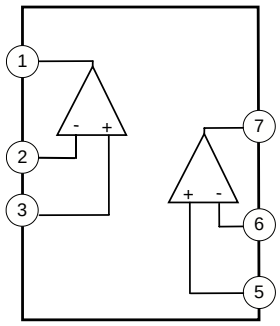
A BOARD IC2000 MSP3411G



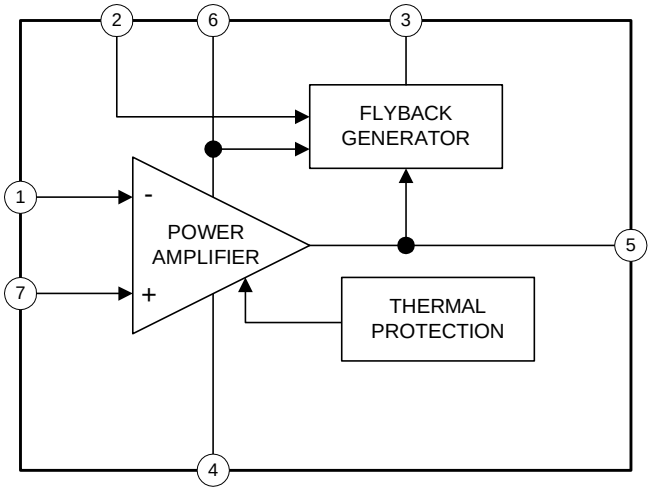
G BOARD IC6003 SE135N-LF4



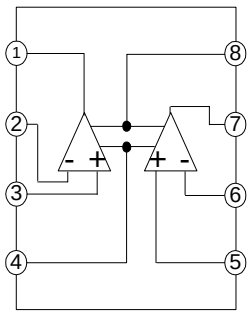
A BOARD IC5301/IC5302 LM393N



A BOARD IC5400 STV9379



A BOARD IC5300 LM358N



SECTION 6
EXPLODED VIEWS

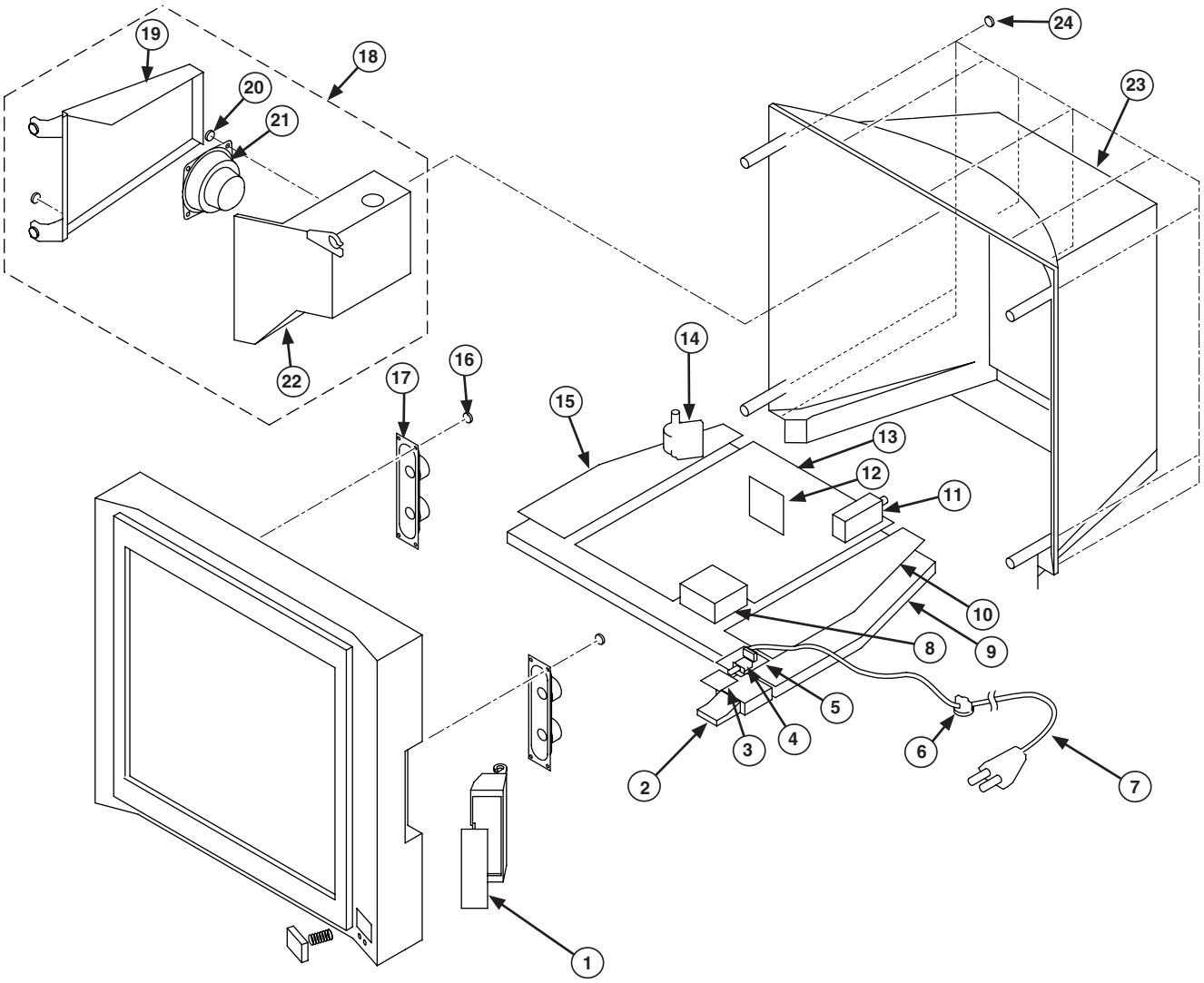
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

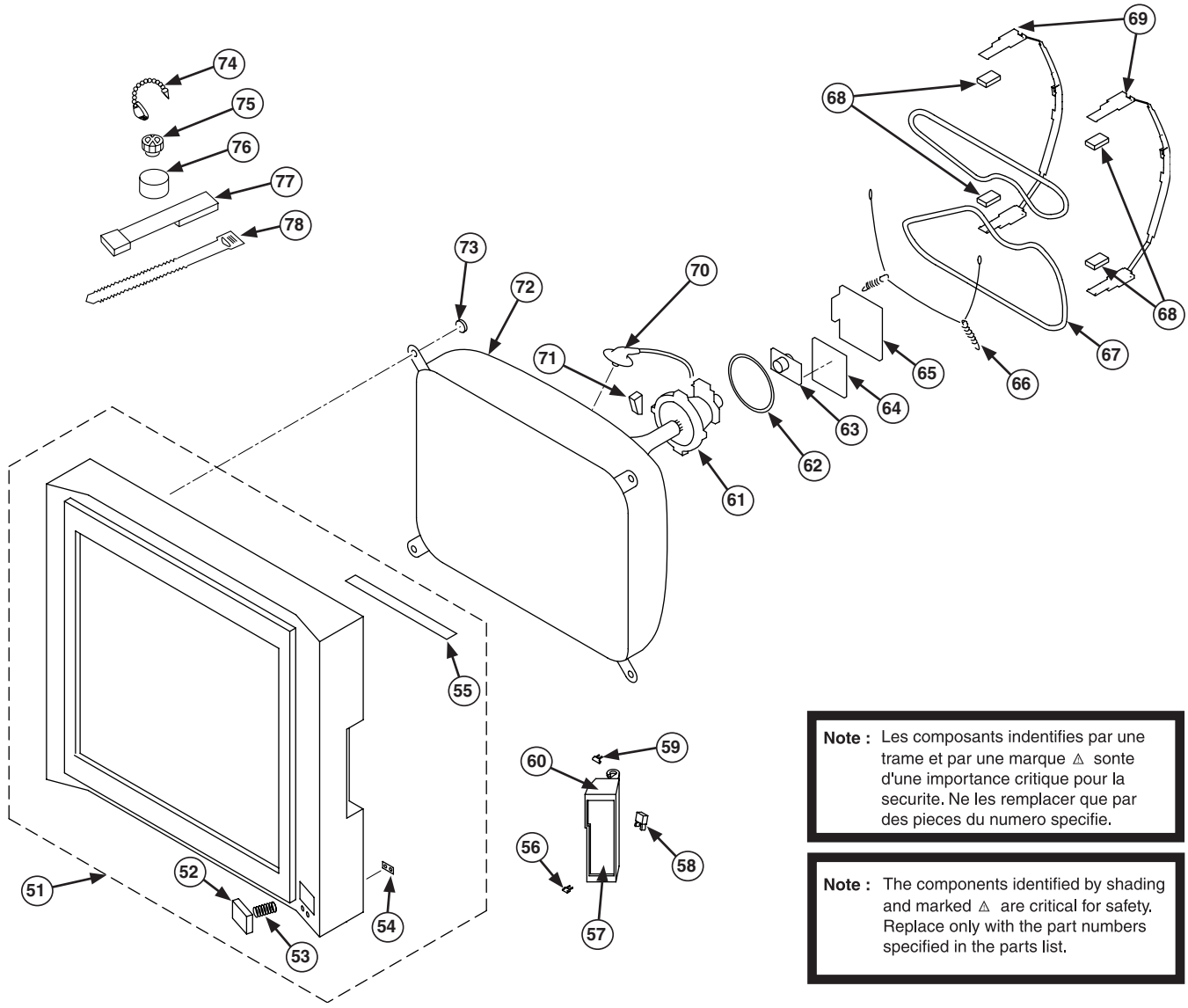
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS



REF.NO.		PART.NO	DESCRIPTION	REMARK
1		*A-1647-043-A	H2 BOARD, COMPLETE	
2		*4-206-097-01	F4, H1 BRACKET	
3		*A-1646-243-A	H1 BOARD, COMPLETE	
4	⚠	1-571-433-21	SWITCH, (AC POWER)	
5		*A-1625-000-A	F4 BOARD, COMPLETE	
6		*4-202-531-01	AC CORD LOCK (SC)	
7	⚠	1-823-853-11	CORD, POWER	
8		1-424-855-11	COIL, CHOKE	
9		*4-206-106-01	BRACKET, MAIN	
10		*A-1637-024-A	G BOARD, COMPLETE	
11		8-598-533-01	FRONTEND BTF-EC411	
12		*A-1634-062-A	M BOARD, COMPLETE	
13		*A-1632-955-A	A BOARD, COMPLETE	
14	⚠	1-453-340-31	FBT ASSY, (NX-4522//Z2B4)	
15		*A-1640-432-A	D BOARD, COMPLETE	
16		7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
17		1-529-408-11	SPEAKER (4.2x24CM)	
18		*A-1678-221-A	WOOFER ASSY SP	19-22
19		*4-204-775-31	BAFFLE, WOOFER	
20		7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
21		1-529-417-11	SPEAKER (8CM)	
22		*4-204-776-31	BOX, WOOFER	
23		4-206-096-11	REAR COVER	
24		7-685-663-79	SCREW +BVTP 4x16 TYPE 2 IT-3	

6-2. PICTURE TUBE



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4200-730-3	BEZNET ASSY	52-55
52		4-205-720-02	POWER BUTTON	
53		4-204-426-01	SPRING	
54		4-204-726-01	GUIDE, LIGHT	
55		4-204-295-01	SHEET, BLOTTING	
56		3-022-410-01	DAMPER	
57		4-206-541-01	DOOR	
58		4-047-464-01	CATCHER, PUSH	
59		4-205-725-01	DOOR SPRING	
60		*4-205-723-01	DOOR BRACKET	
61	⚠	8-451-504-31	DEFLECTION YOKE (Y29RSC-S)	
62		1-452-896-11	COIL, NA ROTATION (RT200)	
63		8-453-011-11	NECK ASSY, (NA299-M)	
64		*A-1644-119-A	VM BOARD, COMPLETE	

REF.NO.		PART.NO	DESCRIPTION	REMARK
65		*A-1300-354-A	C BOARD, COMPLETE	
66		4-369-318-21	SPRING, TENSION	
67	⚠	1-424-887-11	COIL, DEGAUSSING	
68		4-203-390-11	CUSHION, DGC	
69		*4-204-768-01	HOLDER, DGC (29″)	
70	⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
71		3-704-495-01	SPACER, DY	
72	⚠	8-735-053-05	PICTURE TUBE (M68LNH060X)	
73		4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
74		4-308-870-00	CLIP, LEAD WIRE	
75		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
76		1-452-032-00	MAGNET, DISK; 10MM	
77		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
78		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)
Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

F4 A

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
*** A-1625-000-A MOUNTED PC BOARD, F4**				
		* 4-374-846-01	COVER, CAPACITOR, CAP TYPE	
			< CAPACITOR >	
C6991	⚠	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V
			< CONNECTOR >	
CN6991	⚠	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6992	⚠	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6993	⚠	1-695-915-11	TAB (CONTACT)	
			< FUSE >	
F6991	⚠	1-576-232-11	FUSE (H.B.C.) 5A/250V	
FH6991	⚠	* 1-533-725-11	HOLDER, FUSE	
			< RESISTOR >	
R6991	⚠	1-202-719-00	SOLID 1M 10% 1/2W	
			< SWITCH >	
S6991	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
			< VARISTOR >	
VD6991	⚠	1-803-830-11	VARISTOR (ERZV14D621)	
*** A-1632-955-A A BOARD, COMPLETE**				
		4-382-854-01	SCREW (M3X8), P, SW (+)	
			< CAPACITOR >	
C1001		1-126-933-11	ELECT 100UF	20.00% 16V
C1002		1-126-964-11	ELECT 10UF	20.00% 50V
C1004		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1006		1-126-933-11	ELECT 100UF	20.00% 16V
C1008		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1009		1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C1010		1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C1014		1-126-933-11	ELECT 100UF	20.00% 16V
C1015		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1018		1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C1020		1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1021		1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1022		1-216-295-91	SHORT 0	
C2000		1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2001		1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2006		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2007		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2008		1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2009		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2010		1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2011		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2013		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2014		1-164-346-11	CERAMIC CHIP 1UF	16V
C2015		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2016		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2018		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2019		1-164-346-11	CERAMIC CHIP 1UF	16V
C2021		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2024		1-164-346-11	CERAMIC CHIP 1UF	16V
C2026		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2029		1-164-346-11	CERAMIC CHIP 1UF	16V
C2038		1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2039		1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C2040		1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2041		1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C2042		1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C2043		1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2044		1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2046		1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C2047		1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2048		1-126-947-11	ELECT 47UF	20.00% 25V
C2049		1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C2050		1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2051		1-126-964-11	ELECT 10UF	20.00% 50V
C2052		1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2053		1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2054		1-126-947-11	ELECT 47UF	20.00% 25V
C2055		1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2057		1-126-964-11	ELECT 10UF	20.00% 50V
C2058		1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2059		1-126-964-11	ELECT 10UF	20.00% 50V
C2060		1-126-947-11	ELECT 47UF	20.00% 25V
C2061		1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C2062		1-164-346-11	CERAMIC CHIP 1UF	16V
C2063		1-164-346-11	CERAMIC CHIP 1UF	16V
C2064		1-126-964-11	ELECT 10UF	20.00% 50V
C2065		1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2066		1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2069		1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C2073		1-126-960-11	ELECT 1UF	20.00% 50V
C2074		1-126-960-11	ELECT 1UF	20.00% 50V
C2075		1-126-960-11	ELECT 1UF	20.00% 50V
C2077		1-126-960-11	ELECT 1UF	20.00% 50V
C2078		1-126-963-11	ELECT 4.7UF	20.00% 50V
C2079		1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2080		1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2081		1-163-273-91	CERAMIC CHIP 820PF	5.00% 25V
C2082		1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C2083		1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V

A

REF.NO.	PART.NO	DESCRIPTION		REMARK
C2090	1-126-947-11	ELECT	47UF	20.00% 25V
C2091	1-126-947-11	ELECT	47UF	20.00% 25V
C2092	1-126-947-11	ELECT	47UF	20.00% 25V
C2093	1-126-947-11	ELECT	47UF	20.00% 25V
C2096	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C2500	1-126-952-11	ELECT	1000UF	20.00% 35V
C2502	1-104-666-11	ELECT	220UF	20.00% 25V
C2504	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C2505	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C2506	1-126-972-11	ELECT	1000UF	20.00% 50V
C2507	1-164-230-11	CERAMIC CHIP	220PF	5.00% 50V
C2508	1-164-230-11	CERAMIC CHIP	220PF	5.00% 50V
C2509	1-164-230-11	CERAMIC CHIP	220PF	5.00% 50V
C2510	1-164-227-11	CERAMIC CHIP	0.022UF	10.00% 25V
C2511	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C2512	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C2513	1-126-952-11	ELECT	1000UF	20.00% 35V
C2515	1-164-227-11	CERAMIC CHIP	0.022UF	10.00% 25V
C2516	1-126-953-11	ELECT	2200UF	20.00% 35V
C2517	1-126-960-11	ELECT	1UF	20.00% 50V
C2518	1-126-960-11	ELECT	1UF	20.00% 50V
C2519	1-126-959-11	ELECT	0.47UF	20.00% 50V
C2521	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C2523	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C3200	1-126-964-11	ELECT	10UF	20.00% 50V
C3202	1-126-964-11	ELECT	10UF	20.00% 50V
C3203	1-126-964-11	ELECT	10UF	20.00% 50V
C3206	1-126-964-11	ELECT	10UF	20.00% 50V
C3208	1-163-235-11	CERAMIC CHIP	22PF	5.00% 50V
C3209	1-163-235-11	CERAMIC CHIP	22PF	5.00% 50V
C3210	1-126-964-11	ELECT	10UF	20.00% 50V
C3211	1-126-964-11	ELECT	10UF	20.00% 50V
C3213	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3214	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3215	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3216	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3217	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3218	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3219	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3220	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3221	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3222	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3223	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3224	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3225	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3226	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3227	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3228	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3229	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3230	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3231	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3232	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3233	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3234	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C3235	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3236	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3237	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3238	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3239	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3240	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C3241	1-126-933-11	ELECT	100UF	20.00% 16V
C3242	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C3243	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C3245	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C3250	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C3300	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C3309	1-126-964-11	ELECT	10UF	20.00% 50V
C3310	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C5110	1-126-947-11	ELECT	47UF	20.00% 25V
C5111	1-126-964-11	ELECT	10UF	20.00% 50V
C5112	1-126-964-11	ELECT	10UF	20.00% 50V
C5114	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5115	1-126-964-11	ELECT	10UF	20.00% 50V
C5116	1-126-964-11	ELECT	10UF	20.00% 50V
C5117	1-126-964-11	ELECT	10UF	20.00% 50V
C5118	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5119	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C5120	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5121	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5122	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5123	1-126-964-11	ELECT	10UF	20.00% 50V
C5124	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5125	1-126-964-11	ELECT	10UF	20.00% 50V
C5200	1-136-177-00	FILM	1UF	5.00% 50V
C5201	1-163-989-11	CERAMIC CHIP	0.033UF	10.00% 25V
C5202	1-126-947-11	ELECT	47UF	20.00% 25V
C5203	1-136-177-00	FILM	1UF	5.00% 50V
C5204	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C5205	1-163-989-11	CERAMIC CHIP	0.033UF	10.00% 25V
C5206	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C5207	1-126-947-11	ELECT	47UF	20.00% 25V
C5209	1-163-127-00	CERAMIC CHIP	270PF	5.00% 50V
C5210	1-164-336-11	CERAMIC CHIP	0.33UF	25V
C5211	1-136-165-00	FILM	0.1UF	5.00% 50V
C5212	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C5213	1-126-947-11	ELECT	47UF	20.00% 25V
C5214	1-126-964-11	ELECT	10UF	20.00% 50V
C5215	1-162-923-11	CERAMIC CHIP	47PF	5.00% 50V
C5216	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C5217	1-136-165-00	FILM	0.1UF	5.00% 50V

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REF.NO.	PART.NO	DESCRIPTION		REMARK
C5218	1-162-923-11	CERAMIC CHIP	47PF	5.00% 50V
C5219	1-126-964-11	ELECT	10UF	20.00% 50V
C5300	1-126-933-11	ELECT	100UF	20.00% 16V
C5301	1-126-947-11	ELECT	47UF	20.00% 25V
C5302	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C5303	1-136-153-00	FILM	0.01UF	5.00% 50V
C5304	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00% 50V
C5305	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5306	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5307	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5309	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C5310	1-136-165-00	FILM	0.1UF	5.00% 50V
C5311	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5312	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5313	1-107-714-11	ELECT	10UF	20.00% 50V
C5314	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C5316	1-164-230-11	CERAMIC CHIP	220PF	5.00% 50V
C5318	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5319	1-136-347-11	FILM	0.0047UF	5.00% 630V
C5320	1-129-716-00	FILM	0.015UF	5.00% 630V
C5321	1-136-347-11	FILM	0.0047UF	5.00% 630V
C5322	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5323	1-136-159-00	FILM	0.033UF	5.00% 50V
C5400	1-126-964-11	ELECT	10UF	20.00% 50V
C5401	1-107-714-11	ELECT	10UF	20.00% 50V
C5403	1-128-527-11	ELECT	330UF	20.00% 25V
C5404	1-102-228-00	CERAMIC	470PF	10.00% 500V
C5405	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5406	1-129-702-00	MYLAR	0.001UF	10.00% 400V
C5407	1-128-527-11	ELECT	330UF	20.00% 25V
C5409	1-126-968-11	ELECT	100UF	20.00% 50V
C5410	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C5411	1-137-401-11	MYLAR	0.22UF	10.00% 100V
C5412	1-106-220-00	MYLAR	0.1UF	10.00% 100V
C5413	1-130-785-11	MYLAR	0.47UF	10.00% 100V
C5414	1-126-964-11	ELECT	10UF	20.00% 50V
C5801	1-126-963-11	ELECT	4.7UF	20.00% 50V
C5850	1-126-963-11	ELECT	4.7UF	20.00% 50V
C5851	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C5853	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C5854	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C5858	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C5859	1-126-960-11	ELECT	1UF	20.00% 50V
C5860	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5868	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C5872	1-164-346-11	CERAMIC CHIP	1UF	16V
C5873	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C5888	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5889	1-126-964-11	ELECT	10UF	20.00% 50V
C5890	1-164-227-11	CERAMIC CHIP	0.022UF	10.00% 25V
C5891	1-137-581-11	FILM	0.1UF	5.00% 100V
C5892	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
C5893	1-126-947-11	ELECT	47UF	20.00% 25V
C5894	1-126-947-11	ELECT	47UF	20.00% 25V
C5895	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C5896	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C5897	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C5898	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C5899	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C6200	1-126-933-11	ELECT	100UF	20.00% 16V
C6201	1-126-935-11	ELECT	470UF	20.00% 16V
C6202	1-126-933-11	ELECT	100UF	20.00% 16V
C6203	1-126-935-11	ELECT	470UF	20.00% 10V
C6204	1-126-933-11	ELECT	100UF	20.00% 16V
C6205	1-126-935-11	ELECT	470UF	20.00% 10V
C6206	1-126-933-11	ELECT	100UF	20.00% 16V
C6207	1-126-933-11	ELECT	100UF	20.00% 16V
C6208	1-126-933-11	ELECT	100UF	20.00% 16V
C6209	1-126-933-11	ELECT	100UF	20.00% 16V
C6210	1-126-935-11	ELECT	470UF	20.00% 16V
C6211	1-126-947-11	ELECT	47UF	20.00% 25V
C6212	1-126-933-11	ELECT	100UF	20.00% 16V
C6213	1-126-933-11	ELECT	100UF	20.00% 16V
C6214	1-126-933-11	ELECT	100UF	20.00% 16V
C7002	1-126-947-11	ELECT	47UF	20.00% 25V
C7004	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C7008	1-162-919-11	CERAMIC CHIP	22PF	5.00% 50V
C7016	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C7018	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7019	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7020	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7021	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7022	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7023	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7030	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7032	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7038	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C7039	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C7050	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C7051	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7052	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7053	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C7054	1-126-963-11	ELECT	4.7UF	20.00% 50V
C7055	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C7056	1-126-933-11	ELECT	100UF	20.00% 16V
C7057	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C7058	1-126-933-11	ELECT	100UF	20.00% 16V
C7059	1-126-933-11	ELECT	100UF	20.00% 16V
C7060	1-164-222-91	CERAMIC CHIP	0.22UF	25V

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REF.NO.	PART.NO	DESCRIPTION	REMARK
C7061	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7062	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7063	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C7064	1-126-947-11	ELECT 47UF	20.00% 25V
C7065	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C7067	1-126-947-11	ELECT 47UF	20.00% 25V
C7068	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C7069	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C7070	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C7071	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
		< CONNECTOR >	
CN0101	1-823-330-11	CONNECTOR, BOARD TO BOARD 40P	
CN0102	* 1-564-520-11	PLUG, CONNECTOR 5P	
CN0103	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1000	1-770-130-11	CONNECTOR (SQUARE TYPE) 21P	
CN1001	1-770-130-11	CONNECTOR (SQUARE TYPE) 21P	
CN2000	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN2500	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN2501	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN2502	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN5002	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN5100	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN5200	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN5801	* 1-564-513-11	PLUG, CONNECTOR 10P	
CN6200	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN6202	* 1-564-516-11	PLUG, CONNECTOR 13P	
CN6203	1-695-915-11	TAB (CONTACT)	
CN7000	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN7001	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN8001	1-766-281-11	PIN, CONNECTOR (PC BOARD) 8P	
		< DIODE >	
D0101	8-719-921-88	DIODE MTZJ-T-77-13B	
D0104	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D0110	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D0111	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D0112	8-719-921-88	DIODE MTZJ-T-77-13B	
D1006	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D2014	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D2015	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D2016	8-719-050-38	DIODE M1MA152WK-T1	
D2018	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D2019	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D2500	8-719-050-38	DIODE M1MA152WK-T1	
D2502	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D2503	8-719-050-38	DIODE M1MA152WK-T1	
D3001	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3003	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3005	8-719-929-15	DIODE MTZJ-T-77-9.1B	

REF.NO.	PART.NO	DESCRIPTION	REMARK
D3007	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D3008	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D3009	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3011	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3013	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3015	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3017	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D3018	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D3019	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3026	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3028	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D3201	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D5103	8-719-110-88	DIODE MTZJ-T-77-39	
D5104	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D5200	8-719-991-33	DIODE 1SS133T-77	
D5202	8-719-050-38	DIODE M1MA152WK-T1	
D5300	8-719-081-97	DIODE MMDL914T1	
D5303	8-719-081-97	DIODE MMDL914T1	
D5304	8-719-081-97	DIODE MMDL914T1	
D5305	8-719-991-33	DIODE 1SS133T-77	
D5306	8-719-302-43	DIODE RGP10GPKG23	
D5307	8-719-987-87	DIODE ERA82-004TP1	
D5308	8-719-081-97	DIODE MMDL914T1	
D5309	8-719-081-97	DIODE MMDL914T1	
D5400	8-719-982-03	DIODE MTZJ-T-77-3.6A	
D5401	8-719-050-38	DIODE M1MA152WK-T1	
D5404	8-719-110-41	DIODE MTZJ-T-77-15B	
D5405	8-719-908-03	DIODE GP08DPKG23	
D5406	8-719-081-97	DIODE MMDL914T1	
D5407	8-719-081-97	DIODE MMDL914T1	
D5804	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D5807	8-719-929-15	DIODE MTZJ-T-77-9.1B	
D5809	8-719-050-38	DIODE M1MA152WK-T1	
D5811	8-719-081-97	DIODE MMDL914T1	
D5812	8-719-081-97	DIODE MMDL914T1	
D6200	8-719-063-70	DIODE D1NL20U-TA2	
D7004	8-719-929-15	DIODE MTZJ-T-77-9.1B	
		< FERRITE BEAD >	
FB3001	1-414-760-21	FERRITE 0UH	
		< FILTER >	
FL2000	1-239-803-11	FILTER, EMI	
		< IC >	
IC2000	6-701-031-01	IC MSP3411G-QA-B10	
IC2001	8-759-100-96	IC NJM4558M-TE2	
IC2500	8-759-831-56	IC TDA7497	
IC3200	6-700-505-01	IC VSP9402A-A32GEG	

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REF.NO.	PART.NO	DESCRIPTION	REMARK
IC5103	8-752-072-94	IC CXA1875AM-T4	
IC5104	8-759-803-42	IC LA6500-FA	
IC5200	8-759-595-52	IC CXA8070AP	
IC5201	8-759-903-16	IC LM318P	
IC5300	8-759-008-70	IC LM358N	
IC5301	8-759-450-95	IC LM393N	
IC5302	8-759-450-95	IC LM393N	
IC5400	8-759-696-71	IC STV9379	
IC6200	8-759-648-19	IC L7809CV/LSY	
IC6201	8-759-648-20	IC L7805CV/LSY	
IC6202	8-759-445-59	IC BA033T	
IC6203	8-759-098-24	IC PQ30RV11	
IC6205	8-759-394-35	IC BA12T	
IC6206	8-759-991-41	IC L78L05ACZ-AP	
IC6207	8-759-445-59	IC BA033T	
IC7002	8-752-090-88	IC CXA2100AQ-TL	
		< JACK >	
J2000	1-784-632-11	JACK, PIN 2P	
		< COIL >	
L1000	1-412-987-31	INDUCTOR 4.7UH	
L1001	1-412-987-31	INDUCTOR 4.7UH	
L1002	1-414-934-21	INDUCTOR 10UH	
L1003	1-414-934-21	INDUCTOR 10UH	
L1005	1-414-934-21	INDUCTOR 10UH	
L2000	1-414-934-21	INDUCTOR 10UH	
L2001	1-414-934-21	INDUCTOR 10UH	
L2007	1-408-602-31	INDUCTOR 8.2UH	
L2008	1-216-295-91	SHORT 0	
L2009	1-216-295-91	SHORT 0	
L2010	1-414-928-21	INDUCTOR 1UH	
L2012	1-414-934-21	INDUCTOR 10UH	
L2013	1-414-928-21	INDUCTOR 1UH	
L2014	1-408-602-31	INDUCTOR 8.2UH	
L3000	1-216-295-91	SHORT 0	
L3004	1-216-295-91	SHORT 0	
L3005	1-216-295-91	SHORT 0	
L3006	1-216-295-91	SHORT 0	
L3007	1-216-295-91	SHORT 0	
L3008	1-216-295-91	SHORT 0	
L3009	1-216-295-91	SHORT 0	
L3010	1-216-295-91	SHORT 0	
L3011	1-216-295-91	SHORT 0	
L3012	1-216-295-91	SHORT 0	
L3200	1-412-006-31	INDUCTOR 10UH	
L3202	1-412-006-31	INDUCTOR 10UH	
L3203	1-412-006-31	INDUCTOR 10UH	
L3206	1-412-006-31	INDUCTOR 10UH	
L3208	1-412-006-31	INDUCTOR 10UH	
L3300	1-412-006-31	INDUCTOR 10UH	
L5300	1-406-989-21	INDUCTOR 10MH	
L5301	1-406-989-21	INDUCTOR 10MH	
L5400	1-412-524-11	INDUCTOR 8.2UH	
L5896	1-216-864-11	SHORT 0	
L5897	1-216-864-11	SHORT 0	
L5898	1-414-934-21	INDUCTOR 10UH	
L5899	1-414-934-21	INDUCTOR 10UH	
L7001	1-414-934-21	INDUCTOR 10UH	
L7009	1-414-934-21	INDUCTOR 10UH	
L7010	1-414-934-21	INDUCTOR 10UH	
L7011	1-414-934-21	INDUCTOR 10UH	
L7012	1-414-934-21	INDUCTOR 10UH	
		< IC LINK >	
PS2501 ⚠	1-533-597-31	LINK, IC 5A	
		< TRANSISTOR >	
Q1000	8-729-010-05	TRANSISTOR MSB709-RT1	
Q1001	8-729-010-29	TRANSISTOR MSD601-RST1	
Q1004	8-729-010-05	TRANSISTOR MSB709-RT1	
Q1005	8-729-421-19	TRANSISTOR MUN2213T1	
Q1006	8-729-010-05	TRANSISTOR MSB709-RT1	
Q2000	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2001	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2002	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2501	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2502	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2503	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2504	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3204	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3300	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3301	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3302	8-729-010-05	TRANSISTOR MSB709-RT1	
Q3500	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q3501	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q5101	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5200	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5202	8-729-045-04	TRANSISTOR 2SC5511	
Q5203	8-729-044-59	TRANSISTOR 2SA1837(LBS2SONY)	
Q5204	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5205	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5300	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5301	8-729-053-33	TRANSISTOR IRF614-037	
Q5302	8-729-140-97	TRANSISTOR 2SB734-T-3	

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REF.NO.	PART.NO	DESCRIPTION	REMARK
Q5303	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5304	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5305	8-729-119-78	TRANSISTOR 2SC1740S-RT	
Q5306	8-729-140-97	TRANSISTOR 2SB734-T-3	
Q5400	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5401	8-729-421-19	TRANSISTOR MUN2213T1	
Q5402	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5403	8-729-421-19	TRANSISTOR MUN2213T1	
Q5404	8-729-039-68	TRANSISTOR IRF620	
Q5813	8-729-421-19	TRANSISTOR MUN2213T1	
Q5814	8-729-010-05	TRANSISTOR MSB709-RT1	
Q5815	8-729-010-29	TRANSISTOR MSD601-RST1	
Q5816	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7009	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7011	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7012	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7013	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7014	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7015	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7016	8-729-010-29	TRANSISTOR MSD601-RST1	
Q7017	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7018	8-729-010-05	TRANSISTOR MSB709-RT1	
Q7019	8-729-010-29	TRANSISTOR MSD601-RST1	

< RESISTOR >

JR104	1-216-295-91	SHORT	0		
JR106	1-216-295-91	SHORT	0		
JR107	1-216-295-91	SHORT	0		
JR110	1-216-295-91	SHORT	0		
JR113	1-216-295-91	SHORT	0		
JR115	1-216-295-91	SHORT	0		
JR117	1-216-295-91	SHORT	0		
JR118	1-216-295-91	SHORT	0		
JR121	1-216-864-11	SHORT	0		
JR123	1-216-864-11	SHORT	0		
JR150	1-216-295-91	SHORT	0		
JR515	1-216-295-91	SHORT	0		
JR516	1-216-295-91	SHORT	0		
JR523	1-216-295-91	SHORT	0		
JR0101	1-216-295-91	SHORT	0		
JR2000	1-216-295-91	SHORT	0		
R0101	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0102	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R0103	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0104	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R0107	1-216-025-11	RES-CHIP	100	5%	1/10W
R1000	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1001	1-216-001-00	RES-CHIP	10	5%	1/10W
R1002	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1003	1-216-809-11	RES-CHIP	100	5%	1/16W
R1004	1-216-809-11	RES-CHIP	100	5%	1/16W
R1005	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1006	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1007	1-414-813-11	FERRITE	0UH		
R1008	1-216-295-91	SHORT	0		
R1009	1-216-295-91	SHORT	0		
R1010	1-216-295-91	SHORT	0		
R1014	1-216-295-91	SHORT	0		
R1017	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R1019	1-216-295-91	SHORT	0		
R1021	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1022	1-216-839-11	RES-CHIP	33K	5%	1/16W
R1023	1-216-849-11	RES-CHIP	220K	5%	1/16W
R1024	1-216-839-11	RES-CHIP	33K	5%	1/16W
R1025	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1026	1-216-817-11	RES-CHIP	470	5%	1/16W
R2009	1-216-817-11	RES-CHIP	470	5%	1/16W
R2010	1-216-817-11	RES-CHIP	470	5%	1/16W
R2011	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2014	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2015	1-216-295-91	SHORT	0		
R2017	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2018	1-216-295-91	SHORT	0		
R2020	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2023	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2026	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2029	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2032	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2035	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2042	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2043	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2046	1-216-295-91	SHORT	0		
R2048	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2050	1-216-845-11	RES-CHIP	100K	5%	1/16W
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2052	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2053	1-216-817-11	RES-CHIP	470	5%	1/16W
R2054	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2056	1-216-037-00	RES-CHIP	330	5%	1/10W
R2057	1-216-025-11	RES-CHIP	100	5%	1/10W
R2058	1-216-025-11	RES-CHIP	100	5%	1/10W
R2059	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2060	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2061	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2062	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2065	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2069	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2070	1-216-833-11	RES-CHIP	10K	5%	1/16W

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REF.NO.	PART.NO	DESCRIPTION			REMARK
R2071	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2072	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2074	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2075	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2076	1-216-839-11	RES-CHIP	33K	5%	1/16W
R2077	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2078	1-216-025-11	RES-CHIP	100	5%	1/10W
R2079	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2080	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
R2081	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2082	1-216-031-00	RES-CHIP	180	5%	1/10W
R2083	1-216-817-11	RES-CHIP	470	5%	1/16W
R2090	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2091	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2092	1-216-039-00	RES-CHIP	390	5%	1/10W
R2093	1-216-039-00	RES-CHIP	390	5%	1/10W
R2094	1-216-039-00	RES-CHIP	390	5%	1/10W
R2095	1-216-039-00	RES-CHIP	390	5%	1/10W
R2098	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2099	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2500	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2501	1-216-341-11	METAL OXIDE	0.22	5%	1W
R2502	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2503	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2504	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2507	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2509	1-249-417-11	CARBON	1K	5%	1/4W
R2511	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2516	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2517	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2518	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2519	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2520	1-216-025-11	RES-CHIP	100	5%	1/10W
R2524	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2525	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R2912	1-216-295-91	SHORT	0		
R2914	1-216-853-11	RES-CHIP	470K	5%	1/16W
R2921	1-216-295-91	SHORT	0		
R2924	1-216-295-91	SHORT	0		
R2927	1-216-295-91	SHORT	0		
R2930	1-216-295-91	SHORT	0		
R2933	1-216-295-91	SHORT	0		
R3000	1-216-025-11	RES-CHIP	100	5%	1/10W
R3001	1-216-022-00	RES-CHIP	75	5%	1/10W
R3009	1-216-025-11	RES-CHIP	100	5%	1/10W
R3010	1-216-022-00	RES-CHIP	75	5%	1/10W
R3011	1-216-025-11	RES-CHIP	100	5%	1/10W
R3012	1-216-022-00	RES-CHIP	75	5%	1/10W
R3013	1-216-025-11	RES-CHIP	100	5%	1/10W
R3014	1-216-022-00	RES-CHIP	75	5%	1/10W
R3015	1-216-022-00	RES-CHIP	75	5%	1/10W
R3016	1-216-025-11	RES-CHIP	100	5%	1/10W
R3017	1-216-022-00	RES-CHIP	75	5%	1/10W
R3018	1-216-025-11	RES-CHIP	100	5%	1/10W
R3019	1-216-022-00	RES-CHIP	75	5%	1/10W
R3020	1-216-025-11	RES-CHIP	100	5%	1/10W
R3021	1-216-022-00	RES-CHIP	75	5%	1/10W
R3022	1-216-025-11	RES-CHIP	100	5%	1/10W
R3023	1-216-022-00	RES-CHIP	75	5%	1/10W
R3024	1-216-025-11	RES-CHIP	100	5%	1/10W
R3025	1-216-022-00	RES-CHIP	75	5%	1/10W
R3026	1-216-022-00	RES-CHIP	75	5%	1/10W
R3027	1-216-025-11	RES-CHIP	100	5%	1/10W
R3028	1-216-022-00	RES-CHIP	75	5%	1/10W
R3034	1-216-022-00	RES-CHIP	75	5%	1/10W
R3035	1-216-025-11	RES-CHIP	100	5%	1/10W
R3036	1-216-022-00	RES-CHIP	75	5%	1/10W
R3037	1-216-045-00	RES-CHIP	680	5%	1/10W
R3218	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3220	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3222	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3225	1-216-025-11	RES-CHIP	100	5%	1/10W
R3226	1-216-025-11	RES-CHIP	100	5%	1/10W
R3229	1-216-025-11	RES-CHIP	100	5%	1/10W
R3233	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3236	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R3238	1-216-797-11	RES-CHIP	10	5%	1/16W
R3305	1-216-025-11	RES-CHIP	100	5%	1/10W
R3306	1-216-025-11	RES-CHIP	100	5%	1/10W
R3312	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3313	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3318	1-216-025-11	RES-CHIP	100	5%	1/10W
R3319	1-216-025-11	RES-CHIP	100	5%	1/10W
R3320	1-216-025-11	RES-CHIP	100	5%	1/10W
R3321	1-216-864-11	SHORT	0		
R3322	1-216-864-11	SHORT	0		
R3323	1-216-813-11	RES-CHIP	220	5%	1/16W
R3403	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3500	1-216-834-11	RES-CHIP	12K	5%	1/16W
R3501	1-216-834-11	RES-CHIP	12K	5%	1/16W
R3504	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3505	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3600	1-216-295-91	SHORT	0		
R3601	1-216-295-91	SHORT	0		
R3602	1-216-295-91	SHORT	0		
R5118	1-249-413-11	CARBON	470	5%	1/4W
R5119	1-216-840-11	RES-CHIP	39K	5%	1/16W
R5122	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5125	1-216-836-11	RES-CHIP	18K	5%	1/16W

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REF.NO.	PART.NO	DESCRIPTION			REMARK
R5126	1-249-413-11	CARBON	470	5%	1/4W
R5128	1-216-809-11	RES-CHIP	100	5%	1/16W
R5129	1-216-809-11	RES-CHIP	100	5%	1/16W
R5130	1-216-809-11	RES-CHIP	100	5%	1/16W
R5131	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5132	1-216-809-11	RES-CHIP	100	5%	1/16W
R5133	1-216-809-11	RES-CHIP	100	5%	1/16W
R5137	1-216-809-11	RES-CHIP	100	5%	1/16W
R5138	1-216-809-11	RES-CHIP	100	5%	1/16W
R5139	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5140	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5141	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5143	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5144	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5145	1-216-809-11	RES-CHIP	100	5%	1/16W
R5147	1-216-809-11	RES-CHIP	100	5%	1/16W
R5150	1-249-414-11	CARBON	560	5%	1/4W
R5151	1-249-454-11	CARBON	3.9	5%	1/4W
R5152	1-249-413-11	CARBON	470	5%	1/4W
R5153	1-249-393-11	CARBON	10	5%	1/4W
R5154	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5155	1-249-421-11	CARBON	2.2K	5%	1/4W
R5156	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5157	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5201	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5203	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5204	1-216-809-11	RES-CHIP	100	5%	1/16W
R5206	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5207	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5208	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R5209	1-216-809-11	RES-CHIP	100	5%	1/16W
R5210	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5211	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5214	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5215	1-216-025-11	RES-CHIP	100	5%	1/10W
R5217	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5218	1-260-321-51	CARBON	270	5%	1/2W
R5219	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5220	1-215-886-11	METAL OXIDE	100	5%	2W
R5222	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R5223	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R5225	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5226	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R5227	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5228	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5229	1-216-837-11	RES-CHIP	22K	5%	1/16W
R5230	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R5231	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5232	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5233	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5234	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5235	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5237	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5238	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5239	1-208-848-11	METAL CHIP	560K	0.5%	1/10W
R5241	1-216-841-11	RES-CHIP	47K	5%	1/16W
R5300	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5301	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5302	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5303	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R5304	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5305	1-208-852-11	METAL CHIP	820K	0.5%	1/10W
R5306	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R5307	1-216-041-00	RES-CHIP	470	5%	1/10W
R5308	1-216-295-91	SHORT	0		
R5309	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R5310	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5311	1-216-045-00	RES-CHIP	680	5%	1/10W
R5312	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R5314	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5315	1-216-043-91	RES-CHIP	560	5%	1/10W
R5316	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5317	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5318	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5319	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5320	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5321	1-216-837-11	RES-CHIP	22K	5%	1/16W
R5322	1-216-820-11	RES-CHIP	820	5%	1/16W
R5324	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5325	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5326	1-216-845-11	RES-CHIP	100K	5%	1/16W
R5327	1-216-472-00	METAL OXIDE	39	5%	3W
R5328	1-216-033-00	RES-CHIP	220	5%	1/10W
R5331	1-216-033-00	RES-CHIP	220	5%	1/10W
R5332	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5333	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R5334	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
R5335	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R5336	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5337	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
R5338	1-249-413-11	CARBON	470	5%	1/4W
R5340	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5341	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5342	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R5343	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R5344	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R5345	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R5346	1-216-849-11	RES-CHIP	220K	5%	1/16W
R5400	1-216-849-11	RES-CHIP	220K	5%	1/16W
R5401	1-216-837-11	RES-CHIP	22K	5%	1/16W

A

REF.NO.	PART.NO	DESCRIPTION			REMARK
R5402	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5403	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5404	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5405	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5407	1-216-857-11	RES-CHIP	1M	5%	1/16W
R5408	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5409	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R5410	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5411	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5413	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R5414	1-249-383-11	CARBON	1.5	5%	1/4W
R5415	1-249-389-11	CARBON	4.7	5%	1/4W
R5416	1-215-888-00	METAL OXIDE	220	5%	2W
R5417	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5420	1-214-798-21	METAL	1.8	1%	1/2W
R5421	1-214-798-21	METAL	1.8	1%	1/2W
R5803	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R5804	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5805	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5806	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5807	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5808	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5865	1-216-841-11	RES-CHIP	47K	5%	1/16W
R5869	1-216-817-11	RES-CHIP	470	5%	1/16W
R5871	1-216-850-11	RES-CHIP	270K	5%	1/16W
R5875	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R5877	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R5878	1-216-817-11	RES-CHIP	470	5%	1/16W
R5879	1-216-809-11	RES-CHIP	100	5%	1/16W
R5880	1-216-809-11	RES-CHIP	100	5%	1/16W
R5881	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5882	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5883	1-216-857-11	RES-CHIP	1M	5%	1/16W
R5884	1-216-841-11	RES-CHIP	47K	5%	1/16W
R5885	1-216-809-11	RES-CHIP	100	5%	1/16W
R5887	1-216-809-11	RES-CHIP	100	5%	1/16W
R5888	1-216-809-11	RES-CHIP	100	5%	1/16W
R5889	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5892	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5895	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5898	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R5899	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R6200	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R6201	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R6202	1-216-295-91	SHORT	0		
R7007	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7018	1-216-025-11	RES-CHIP	100	5%	1/10W
R7023	1-216-834-11	RES-CHIP	12K	5%	1/16W
R7034	1-216-025-11	RES-CHIP	100	5%	1/10W
R7035	1-216-025-11	RES-CHIP	100	5%	1/10W
R7048	1-216-025-11	RES-CHIP	100	5%	1/10W
R7050	1-216-833-11	RES-CHIP	10K	5%	1/16W
R7051	1-216-025-11	RES-CHIP	100	5%	1/10W
R7052	1-216-025-11	RES-CHIP	100	5%	1/10W
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7054	1-216-847-11	RES-CHIP	150K	5%	1/16W
R7056	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
R7057	1-216-842-11	RES-CHIP	56K	5%	1/16W
R7058	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7065	1-216-821-11	RES-CHIP	1K	5%	1/16W
R7066	1-216-809-11	RES-CHIP	100	5%	1/16W
R7068	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R7070	1-216-817-11	RES-CHIP	470	5%	1/16W
R7071	1-216-817-11	RES-CHIP	470	5%	1/16W
R7072	1-216-817-11	RES-CHIP	470	5%	1/16W
R7073	1-216-041-00	RES-CHIP	470	5%	1/10W
R7074	1-216-043-91	RES-CHIP	560	5%	1/10W
R7075	1-216-817-11	RES-CHIP	470	5%	1/16W
R7076	1-216-041-00	RES-CHIP	470	5%	1/10W
R7077	1-216-043-91	RES-CHIP	560	5%	1/10W
R7078	1-216-817-11	RES-CHIP	470	5%	1/16W
R7079	1-216-041-00	RES-CHIP	470	5%	1/10W
R7080	1-216-043-91	RES-CHIP	560	5%	1/10W
R7081	1-216-817-11	RES-CHIP	470	5%	1/16W
R7082	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R7087	1-216-833-11	RES-CHIP	10K	5%	1/16W
R7088	1-208-783-11	METAL CHIP	1.1K	0.5%	1/10W
R7089	1-216-819-11	RES-CHIP	680	5%	1/16W
R7090	1-216-819-11	RES-CHIP	680	5%	1/16W
R7091	1-216-819-11	RES-CHIP	680	5%	1/16W
R7092	1-216-295-91	SHORT	0		
R7093	1-216-295-91	SHORT	0		
R7094	1-216-295-91	SHORT	0		
R7095	1-216-295-91	SHORT	0		
R7096	1-216-803-11	RES-CHIP	33	5%	1/16W
R7097	1-216-803-11	RES-CHIP	33	5%	1/16W
R7098	1-216-803-11	RES-CHIP	33	5%	1/16W
		< VARIABLE RESISTOR >			
RV5101	1-238-600-11	RES, ADJ, CARBON	10.0K		
		< TUNER >			
TU1000	8-598-533-01	FRONT END BTF-EC411			
		< CRYSTAL >			
X2000	1-760-628-11	VIBRATOR, CRYSTAL			
X3200	1-781-946-21	VIBRATOR, CRYSTAL			
X5800	1-767-127-11	VIBRATOR, CERAMIC			

M

* A-1634-062-A M BOARD, COMPLETE

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CAPACITOR >	
C0001	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C0002	1-109-982-11	CERAMIC CHIP 1UF 10.00% 10V	
C0004	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0006	1-126-947-11	ELECT 47UF 20.00% 25V	
C0007	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C0008	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C0009	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0010	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C0011	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0012	1-162-924-11	CERAMIC CHIP 56PF 5.00% 50V	
C0013	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0015	1-135-834-91	CERAMIC CHIP 2.2E+06PF 6.3V	
C0016	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0017	1-162-924-11	CERAMIC CHIP 56PF 5.00% 50V	
C0019	1-165-128-11	CERAMIC CHIP 0.22UF 16V	
C0025	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C0026	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C0027	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C0028	1-126-947-11	ELECT 47UF 20.00% 25V	
		< CONNECTOR >	
CN0001	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
		< DIODE >	
D0001	8-719-992-02	DIODE RB705D-T146	
D0301	8-719-069-56	DIODE UDZSTE-176.2B	
		< FERRITE BEAD >	
FB0003	1-216-295-91	SHORT 0	
FB0004	1-412-006-31	INDUCTOR 10UH	
FB0005	1-216-864-11	SHORT 0	
FB0006	1-216-864-11	SHORT 0	
FB0007	1-216-295-91	SHORT 0	
FB0008	1-216-295-91	SHORT 0	
FB0009	1-412-006-31	INDUCTOR 10UH	
FB0010	1-216-295-91	SHORT 0	
FB0011	1-412-006-31	INDUCTOR 10UH	
FB0012	1-216-295-91	SHORT 0	
FB0015	1-216-864-11	SHORT 0	
FB0016	1-216-864-11	SHORT 0	
FB0017	1-216-295-91	SHORT 0	
FB0018	1-216-295-91	SHORT 0	
FB0019	1-216-295-91	SHORT 0	
FB0020	1-216-295-91	SHORT 0	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< IC >	
IC0001	8-759-699-33	IC M24C16-MN6T	
IC0002	6-700-502-01	IC SAA5665HL/M1D/0358	
IC0003	8-759-672-39	IC PST573IMT	
IC0004	8-759-665-11	IC LM393DT	
IC0005	6-700-132-01	IC K6T2008V2A-YF70T00	
		< TRANSISTOR >	
Q0002	8-729-424-08	TRANSISTOR MUN2111T1	
Q0003	8-729-424-08	TRANSISTOR MUN2111T1	
Q0006	8-729-010-29	TRANSISTOR MSD601-RST1	
Q0007	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0008	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0009	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0010	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q0011	8-729-010-29	TRANSISTOR MSD601-RST1	
Q0012	8-729-424-08	TRANSISTOR MUN2111T1	
Q0013	8-729-421-22	TRANSISTOR MUN2211T1	
		< RESISTOR >	
R0001	1-216-045-00	RES-CHIP 680 5% 1/10W	
R0002	1-216-055-00	RES-CHIP 1.8K 5% 1/10W	
R0003	1-216-295-91	SHORT 0	
R0011	1-216-295-91	SHORT 0	
R0014	1-216-081-00	RES-CHIP 22K 5% 1/10W	
R0016	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0017	1-216-093-91	RES-CHIP 68K 5% 1/10W	
R0018	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0019	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0020	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R0022	1-216-809-11	RES-CHIP 100 5% 1/16W	
R0023	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R0027	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R0028	1-216-833-11	RES-CHIP 10K 5% 1/16W	
R0029	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0030	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0032	1-216-809-11	RES-CHIP 100 5% 1/16W	
R0033	1-216-809-11	RES-CHIP 100 5% 1/16W	
R0034	1-218-725-11	RES-CHIP 24K 5% 1/16W	
R0035	1-216-069-00	RES-CHIP 6.8K 5% 1/10W	
R0037	1-216-061-91	RES-CHIP 3.3K 5% 1/10W	
R0039	1-216-809-11	RES-CHIP 100 5% 1/16W	
R0040	1-216-809-11	RES-CHIP 100 5% 1/16W	
R0041	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R0042	1-216-069-00	RES-CHIP 6.8K 5% 1/10W	
R0043	1-216-803-11	RES-CHIP 33 5% 1/16W	
R0044	1-216-025-11	RES-CHIP 100 5% 1/10W	
R0045	1-216-803-11	RES-CHIP 33 5% 1/16W	
R0046	1-216-803-11	RES-CHIP 33 5% 1/16W	
R0047	1-216-810-11	RES-CHIP 120 5% 1/16W	

M G

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R0048	1-216-809-11	RES-CHIP	100	5%	1/16W
R0049	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0050	1-216-810-11	RES-CHIP	120	5%	1/16W
R0051	1-216-835-11	RES-CHIP	15K	5%	1/16W
R0052	1-216-810-11	RES-CHIP	120	5%	1/16W
R0053	1-216-809-11	RES-CHIP	100	5%	1/16W
R0054	1-216-809-11	RES-CHIP	100	5%	1/16W
R0055	1-216-809-11	RES-CHIP	100	5%	1/16W
R0056	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0057	1-216-809-11	RES-CHIP	100	5%	1/16W
R0058	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R0059	1-216-841-11	RES-CHIP	47K	5%	1/16W
R0060	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0061	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0062	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0063	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0065	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0066	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R0067	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0068	1-216-833-11	RES-CHIP	10K	5%	1/16W
R0069	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0070	1-216-025-11	RES-CHIP	100	5%	1/10W
R0071	1-216-809-11	RES-CHIP	100	5%	1/16W
R0072	1-216-809-11	RES-CHIP	100	5%	1/16W
R0073	1-216-809-11	RES-CHIP	100	5%	1/16W
R0074	1-216-809-11	RES-CHIP	100	5%	1/16W
R0075	1-216-025-11	RES-CHIP	100	5%	1/10W
R0076	1-216-049-11	RES-CHIP	1K	5%	1/10W
R0078	1-216-041-00	RES-CHIP	470	5%	1/10W
R0079	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R0301	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R0303	1-216-836-11	RES-CHIP	18K	5%	1/16W
R0304	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
		< CRYSTAL >			
X0001	1-578-774-11	VIBRATOR, CRYSTAL			

* A-1637-024-A COMPLETE PC BOARD, G

4-063-148-31 HEAT SINK, PIN OUT
4-202-694-21 HEAT SINK (F), REG
4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C6001	⚠	1-137-999-11	FILM	0.1UF	275V
C6002	⚠	1-137-999-11	FILM	0.1UF	275V
C6003	⚠	1-119-887-51	CERAMIC	1000PF	20.00% 250V
C6004	⚠	1-119-887-51	CERAMIC	1000PF	20.00% 250V
C6005		1-119-899-51	CERAMIC	1000PF	10.00% 250V
C6006		1-126-965-91	ELECT	22UF	20.00% 50V
C6007		1-117-753-11	ELECT(BLOCK)	470UF	20.00% 450V
C6008		1-126-964-11	ELECT	10UF	20.00% 50V
C6009		1-126-963-11	ELECT	4.7UF	20.00% 50V
C6010		1-136-165-00	FILM	0.1UF	5.00% 50V
C6011		1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6012	⚠	1-161-830-00	CERAMIC	0.0047UF	500V
C6013	⚠	1-161-830-00	CERAMIC	0.0047UF	500V
C6015		1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6016		1-161-830-00	CERAMIC	0.0047UF	500V
C6017		1-161-830-00	CERAMIC	0.0047UF	500V
C6018		1-126-949-11	ELECT	220UF	20.00% 35V
C6020		1-135-946-21	FILM	47000PF	3% 800V
C6021		1-164-645-11	CERAMIC	1000PF	10.00% 500V
C6022		1-126-963-11	ELECT	4.7UF	20.00% 50V
C6023		1-110-626-11	ELECT	330UF	20.00% 160V
C6024		1-164-625-11	CERAMIC	680PF	10.00% 500V
C6025		1-164-625-11	CERAMIC	680PF	10.00% 500V
C6026		1-164-625-11	CERAMIC	680PF	10.00% 500V
C6027		1-164-625-11	CERAMIC	680PF	10.00% 500V
C6028		1-128-548-11	ELECT	4700UF	20.00% 25V
C6029		1-126-939-11	ELECT	10000UF	20.00% 16V
C6030		1-119-940-51	ELECT	4700UF	20.00% 50V
C6032	⚠	1-113-927-11	CERAMIC	10000PF	20.00% 250V
C6033		1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6034		1-162-968-11	CERAMIC CHIP	0.0047UF	10.00% 50V
C6035		1-136-165-00	FILM	0.1UF	5.00% 50V
C6036		1-136-479-11	FILM	0.001UF	2.00% 50V
C6037		1-126-947-11	ELECT	47UF	20.00% 25V
C6038		1-164-645-11	CERAMIC	1000PF	10.00% 500V
C6039		1-125-891-11	CERAMIC CHIP	0.47UF	10.00% 10V
C6040		1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C6045		1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6102		1-126-943-11	ELECT	2200UF	20.00% 25V
C6103		1-126-971-11	ELECT	470UF	20.00% 50V
C6105		1-126-964-11	ELECT	10UF	20.00% 50V
C6106		1-126-964-11	ELECT	10UF	20.00% 50V

< CONNECTOR >

CN6001	⚠	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P
CN6002	⚠	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CN6003	⚠	* 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
CN6004	⚠	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P
CN6005		* 1-564-509-11	PLUG, CONNECTOR 6P
CN6006		* 1-564-516-11	PLUG, CONNECTOR 13P
CN6008		* 1-564-507-11	PLUG, CONNECTOR 4P

< DIODE >

D6001		6-500-067-01	DIODE GSIB460L/45

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Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6002	8-719-982-26	DIODE MTZJ-T-77-33	
D6004	8-719-979-64	DIODE UF4005PKG23	
D6006	8-719-081-97	DIODE MMDL914T1	
D6007	8-719-081-97	DIODE MMDL914T1	
D6008	8-719-063-70	DIODE D1NL20U-TA2	
D6009	8-719-110-41	DIODE MTZJ-T-77-15B	
D6010	8-719-085-24	DIODE FBIU4D7M1-B	
D6016	8-719-312-47	DIODE RBV-406B	
D6031	8-719-080-59	DIODE EK19-V0	
D6032	8-719-080-59	DIODE EK19-V0	
D6033	8-719-022-97	DIODE D2S4MTA1	
D6034	8-719-022-97	DIODE D2S4MTA1	
D6101	8-719-081-97	DIODE MMDL914T1	
D6102	8-719-511-40	DIODE S1VB20-S	
D6103	8-719-081-97	DIODE MMDL914T1	
D6104	8-719-081-97	DIODE MMDL914T1	
D6105	8-719-081-97	DIODE MMDL914T1	
D6106	8-719-081-97	DIODE MMDL914T1	
D6107	8-719-081-97	DIODE MMDL914T1	
		< FERRITE BEAD >	
FB6002	1-410-397-21	FERRITE 1.1UH	
FB6003	1-410-397-21	FERRITE 1.1UH	
		< IC >	
IC6001	8-759-670-30	IC MCZ3001D	
IC6003	8-749-016-19	IC SE135N-LF4	
		< COIL >	
L6001	1-406-663-21	INDUCTOR 47UH	
L6002	1-412-529-11	INDUCTOR 22UH	
L6003	1-412-529-11	INDUCTOR 22UH	
L6006	1-406-659-11	INDUCTOR 10UH	
L6007	1-412-525-31	INDUCTOR 10UH	
		< PHOTO COUPLER >	
PH6001 ⚠	8-749-016-21	IC TCET1103G	
		< TRANSISTOR >	
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6005	8-729-029-56	TRANSISTOR DTA144ESA-TP	
Q6006	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6007	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6010	8-729-119-78	TRANSISTOR 2SC1740S-RT	
Q6101	8-729-029-56	TRANSISTOR DTA144ESA-TP	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6103	8-729-029-56	TRANSISTOR DTA144ESA-TP	
Q6104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6105	8-729-010-29	TRANSISTOR MSD601-RST1	

REF.NO.	PART.NO	DESCRIPTION			REMARK
		< RESISTOR >			
JR6001	1-216-295-91	SHORT	0		
JR6004	1-216-295-91	SHORT	0		
R6003	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6004 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6005 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6006 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R6007	1-243-979-21	METAL OXIDE	0.1	5%	2W
R6008	1-243-979-21	METAL OXIDE	0.1	5%	2W
R6009	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6010	1-215-481-00	METAL	330K	1%	1/4W
R6013 ⚠	1-218-265-11	METAL	8.2M	5%	1W
R6014	1-215-926-00	METAL OXIDE	33K	5%	3W
R6015	1-208-757-11	METAL CHIP	91	0.5%	1/10W
R6016	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6017	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6018	1-247-895-91	CARBON	470K	5%	1/4W
R6019	1-247-891-00	CARBON	330K	5%	1/4W
R6020	1-216-820-11	RES-CHIP	820	5%	1/16W
R6021	1-216-362-11	METAL OXIDE	0.27	5%	2W
R6022	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6024	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R6029	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6030	1-216-817-11	RES-CHIP	470	5%	1/16W
R6032	1-249-417-11	CARBON	1K	5%	1/4W
R6033	1-215-481-00	METAL	330K	1%	1/4W
R6034	1-249-389-11	CARBON	4.7	5%	1/4W
R6035	1-260-083-11	CARBON	47	5%	1/2W
R6036	1-216-817-11	RES-CHIP	470	5%	1/16W
R6037	1-249-405-11	CARBON	100	5%	1/4W
R6038	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6039	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6040	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R6042	1-216-295-91	SHORT	0		
R6045	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6047	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R6048	1-215-481-00	METAL	330K	1%	1/4W
R6049	1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
R6050	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6054	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R6056	1-216-295-91	SHORT	0		
R6101	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6102	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6103	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6104	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6105	1-216-821-11	RES-CHIP	1K	5%	1/16W
R6106	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6107	1-216-829-11	RES-CHIP	4.7K	5%	1/16W

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Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION			REMARK
R6108		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6109		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6110		1-216-821-11	RES-CHIP	1K	5%	1/16W
			< RELAY >			
RY6001	⚠	1-755-395-11	RELAY (AC POWER)			
RY6002	⚠	1-755-389-11	RELAY (AC POWER)			
			< TRANSFORMER >			
T6002	⚠	1-437-443-11	TRANSFORMER, CONVERTER (PIT)			
T6003	⚠	1-424-896-11	TRANSFORMER, LINE FILTER			
T6101	⚠	1-437-483-11	TRANSFORMER, STANDBY			
			< THERMISTOR >			
TH6002	⚠	1-803-540-11	THERMISTOR			

* A-1300-354-A C BOARD, COMPLETE

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C7303	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7305	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7306	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7308	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7309	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7310	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C7325	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7326	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7330	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7331	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7333	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7334	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C7350	1-126-947-11	ELECT	47UF	20.00%	25V
C7351	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7352	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C7354	1-126-933-11	ELECT	100UF	20.00%	16V
C7355	1-107-967-11	ELECT	1UF	20.00%	400V
C7356	1-136-207-11	MYLAR	0.047UF	10.00%	400V
C7358	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C7359	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C7360	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C7378	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C7379	1-162-114-00	CERAMIC	0.0047UF		2KV
C7380	1-107-662-11	ELECT	22UF	20.00%	250V
C7384	1-162-911-11	CERAMIC CHIP	6PF	0.50PF	50V
C7385	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
C7387	1-162-911-11	CERAMIC CHIP	6PF	0.50PF	50V
C7388	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
C7390	1-162-911-11	CERAMIC CHIP	6PF	0.50PF	50V
C7391	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V

< CONNECTOR >

CN7300	*	1-564-508-11	PLUG, CONNECTOR 5P
CN7301	*	1-564-512-11	PLUG, CONNECTOR 9P
CN7311		1-695-915-11	TAB (CONTACT)
CN7333		1-695-915-11	TAB (CONTACT)

< DIODE >

D7300	8-719-911-19	DIODE 1SS119-25TD
D7325	8-719-911-19	DIODE 1SS119-25TD
D7350	8-719-911-19	DIODE 1SS119-25TD
D7375	8-719-991-33	DIODE 1SS133T-77
D7376	8-719-991-33	DIODE 1SS133T-77
D7378	8-719-109-89	DIODE MTZJ-T-77-5.6B
D7379	8-719-109-89	DIODE MTZJ-T-77-5.6B

< IC >

IC7300	8-759-360-83	IC TDA6111Q/N4
IC7325	8-759-360-83	IC TDA6111Q/N4
IC7350	8-759-360-83	IC TDA6111Q/N4

< SOCKET >

J7375	⚠	1-251-732-11	SOCKET, CRT

< COIL >

L7375		1-410-671-31	INDUCTOR 47UH
L7376	⚠	1-532-637-00	LINK, IC 1A/150V
L7378		1-414-934-21	INDUCTOR 10UH

< TRANSISTOR >

Q7350	8-729-901-06	TRANSISTOR MUN2113T1
Q7352	8-729-421-19	TRANSISTOR MUN2213T1
Q7353	8-729-421-19	TRANSISTOR MUN2213T1
Q7354	8-729-901-06	TRANSISTOR MUN2113T1
Q7355	8-729-421-19	TRANSISTOR MUN2213T1

< RESISTOR >

R7300	1-249-417-11	CARBON	1K	5%	1/4W
R7303	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7304	1-260-095-11	SOLID	470	20%	1/2W
R7305	1-215-903-11	METAL OXIDE	68K	5%	2W
R7309	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7310	1-216-819-11	RES-CHIP	680	5%	1/16W
R7325	1-249-417-11	CARBON	1K	5%	1/4W
R7328	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7329	1-260-095-11	SOLID	470	20%	1/2W
R7330	1-215-903-11	METAL OXIDE	68K	5%	2W
R7334	1-216-819-11	RES-CHIP	680	5%	1/16W

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REF.NO.	PART.NO	DESCRIPTION			REMARK
R7335	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7350	1-249-417-11	CARBON	1K	5%	1/4W
R7356	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7357	1-260-095-11	SOLID	470	20%	1/2W
R7358	1-215-903-11	METAL OXIDE	68K	5%	2W
R7363	1-216-819-11	RES-CHIP	680	5%	1/16W
R7364	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7373	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R7374	1-216-819-11	RES-CHIP	680	5%	1/16W
R7375	1-249-435-11	CARBON	33K	5%	1/4W
R7376	1-249-429-11	CARBON	10K	5%	1/4W
R7377	1-249-430-11	CARBON	12K	5%	1/4W
R7379	1-216-833-11	RES-CHIP	10K	5%	1/16W
R7380	1-216-833-11	RES-CHIP	10K	5%	1/16W
R7381	1-216-833-11	RES-CHIP	10K	5%	1/16W
R7382	1-202-549-00	SOLID	100	20%	1/2W
R7383	1-216-399-00	METAL OXIDE	6.8	5%	3W
R7385	1-202-549-00	SOLID	100	20%	1/2W
R7387	1-247-735-11	SOLID	47	20%	1/2W
R7389	1-247-881-00	CARBON	120K	5%	1/4W
R7390	1-249-417-11	CARBON	1K	5%	1/4W
R7391	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7392	1-216-819-11	RES-CHIP	680	5%	1/16W
R7393	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R7394	1-249-417-11	CARBON	1K	5%	1/4W
R7395	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R7396	1-216-819-11	RES-CHIP	680	5%	1/16W
R7397	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R7398	1-249-417-11	CARBON	1K	5%	1/4W
R7399	1-216-824-11	RES-CHIP	1.8K	5%	1/16W

< VARIABLE RESISTOR >

RV7375	1-225-952-11	RES, ADJ, METAL FILM	110M		

* A-1640-432-A D BOARD, COMPLETE

4-206-543-01 HEAT SINK
4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C8100	1-136-165-00	FILM	0.1UF	5.00%	50V
C8101	1-136-165-00	FILM	0.1UF	5.00%	50V
C8102	1-136-165-00	FILM	0.1UF	5.00%	50V
C8103	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8104	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8105	1-126-947-11	ELECT	47UF	20.00%	25V
C8106	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8108	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8109	1-126-947-11	ELECT	47UF	20.00%	25V
C8113	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8114	1-126-964-11	ELECT	10UF	20.00%	50V
C8115	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C8116	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8117	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8118	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8120	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8125	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8126	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8128	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8130	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C8131	1-126-964-11	ELECT	10UF	20.00%	50V
C8132	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C8134	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C8135	1-126-964-11	ELECT	10UF	20.00%	50V
C8136	1-126-964-11	ELECT	10UF	20.00%	50V
C8140	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8207	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8208	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8209	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8210	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C8801	1-126-947-11	ELECT	47UF	20.00%	25V
C8802	1-126-960-11	ELECT	1UF	20.00%	50V
C8803	1-126-960-11	ELECT	1UF	20.00%	50V
C8804	1-102-114-00	CERAMIC	470PF	10.00%	50V
C8805	1-102-114-00	CERAMIC	470PF	10.00%	50V
C8808	1-102-030-00	CERAMIC	330PF	10.00%	500V
C8809	1-102-030-00	CERAMIC	330PF	10.00%	500V
C8810	1-107-368-11	MYLAR	0.047UF	10.00%	200V
C8811	1-107-368-11	MYLAR	0.047UF	10.00%	200V
C8812	1-162-131-11	CERAMIC	220PF	10.00%	2KV
C8813	1-107-444-11	CERAMIC	100PF	10.00%	2KV
C8814	1-117-640-11	FILM	6800PF	3.00%	1.2KV
C8815	1-117-835-11	FILM	6200PF	3.00%	1.5KV
C8816	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C8817	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8818	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8819	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8820	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8824	1-107-846-11	FILM	0.1UF	5.00%	250V
C8825	1-117-663-11	FILM	0.22UF	5.00%	250V
C8826	1-115-518-11	FILM	0.47UF	5.00%	250V
C8827	1-117-660-21	FILM	0.12UF	5.00%	250V
C8828	1-127-681-11	FILM MELF	10000PF	2%	100V
C8829	1-127-680-11	FILM MELF	4700PF	2%	100V
C8830	1-107-655-11	ELECT	47UF	20.00%	250V
C8831	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8832	1-126-941-11	ELECT	470UF	20.00%	25V
C8833	1-126-941-11	ELECT	470UF	20.00%	25V
C8834	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8835	1-102-228-00	CERAMIC	470PF	10.00%	500V

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REF.NO.	PART.NO	DESCRIPTION	REMARK
C8836	1-123-024-21	ELECT 33UF	160V
C8837	1-106-375-12	MYLAR 0.022UF 10.00%	250V
C8840	1-165-176-11	CERAMIC CHIP 0.047UF 10.00%	16V
C8841	1-126-947-11	ELECT 47UF 20.00%	25V
C8844	1-115-513-21	FILM 0.18UF 5.00%	250V
C8851	1-162-131-11	CERAMIC 220PF 10.00%	2KV
C8852	1-162-129-00	CERAMIC 150PF 10.00%	2KV
C8853	1-129-898-00	FILM 0.0022UF 5.00%	630V
C8855	1-136-205-11	MYLAR 0.022UF 10.00%	400V
C8856	1-102-030-00	CERAMIC 330PF 10.00%	500V
C8860	1-162-964-11	CERAMIC CHIP 0.001UF 10.00%	50V
C8861	1-162-927-11	CERAMIC CHIP 100PF 5.00%	50V
C8869	1-162-964-11	CERAMIC CHIP 0.001UF 10.00%	50V
		< CONNECTOR >	
CN8600	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN8601	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN8611	* 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8612	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN8614	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN8616	1-695-915-11	TAB (CONTACT)	
CN8620	* 1-564-513-11	PLUG, CONNECTOR 10P	
CN8810	* 1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D8102	8-719-081-97	DIODE MMDL914T1	
D8103	8-719-081-97	DIODE MMDL914T1	
D8104	8-719-081-97	DIODE MMDL914T1	
D8105	8-719-081-97	DIODE MMDL914T1	
D8107	8-719-081-97	DIODE MMDL914T1	
D8108	8-719-921-40	DIODE MTZJ-T-77-4.7B	
D8128	8-719-081-97	DIODE MMDL914T1	
D8129	8-719-081-97	DIODE MMDL914T1	
D8132	8-719-081-97	DIODE MMDL914T1	
D8133	8-719-081-97	DIODE MMDL914T1	
D8199	8-719-081-97	DIODE MMDL914T1	
D8611	8-719-081-97	DIODE MMDL914T1	
D8612	8-719-081-97	DIODE MMDL914T1	
D8803	8-719-908-03	DIODE GP08DPKG23	
D8805	8-719-302-43	DIODE RGP10GPKG23	
D8806	8-719-979-85	DIODE RGP15GPKG23	
D8807	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8808	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8811	8-719-110-41	DIODE MTZJ-T-77-15B	
D8818	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D8819	8-719-050-38	DIODE M1MA152WK-T1	
D8820	8-719-081-97	DIODE MMDL914T1	
D8851	8-719-970-87	DIODE ERA38-06TP1	
D8856	8-719-081-97	DIODE MMDL914T1	
D8857	8-719-110-41	DIODE MTZJ-T-77-15B	
D8858	8-719-081-97	DIODE MMDL914T1	
		< FERRITE BEAD >	
FB8806	1-410-397-21	FERRITE 1.1UH	
FB8807	1-410-397-21	FERRITE 1.1UH	
		< IC >	
IC8100	8-759-450-95	IC LM393N	
IC8101	8-759-450-95	IC LM393N	
IC8102	8-759-638-79	IC NJM3404AD-W	
IC8103	8-759-450-95	IC LM393N	
		< COIL >	
L8801	1-410-397-21	FERRITE 1.1UH	
L8802	1-410-397-21	FERRITE 1.1UH	
L8803	1-410-397-21	FERRITE 1.1UH	
L8805	1-408-947-00	INDUCTOR 2.2MH	
		< FILTER >	
LF8801	1-406-985-11	INDUCTOR 2.2MH	
LF8851	1-406-674-11	INDUCTOR 3.3MH	
		< TRANSISTOR >	
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8132	8-729-421-19	TRANSISTOR MUN2213T1	
Q8135	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8136	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8137	8-729-010-29	TRANSISTOR MSD601-RST1	

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REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8203	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8801	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8802	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8803	8-729-056-16	TRANSISTOR 2SC5698-SONY-CA	
Q8804	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA	
Q8805	8-729-050-48	TRANSISTOR IRF614-005	
Q8806	8-729-047-59	TRANSISTOR STP5NB40FP	
Q8807	8-729-421-19	TRANSISTOR MUN2213T1	
Q8822	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8823	8-729-424-08	TRANSISTOR MUN2111T1	
Q8851	6-550-012-01	TRANSISTOR STP5NB40(033Y)	

< RESISTOR >

JR8002	1-216-295-91	SHORT	0		
JR8003	1-216-295-91	SHORT	0		
JR8004	1-216-295-91	SHORT	0		
JR8005	1-216-295-91	SHORT	0		
JR8007	1-216-295-91	SHORT	0		
JR8011	1-216-295-91	SHORT	0		
JR8012	1-216-295-91	SHORT	0		
JR8014	1-216-295-91	SHORT	0		
JR8808	1-216-295-91	SHORT	0		
R8100	1-216-813-11	RES-CHIP	220	5%	1/16W
R8101	1-216-813-11	RES-CHIP	220	5%	1/16W
R8102	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8103	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8104	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8105	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8106	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8107	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R8108	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R8109	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8110	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8111	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8112	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8113	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8114	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8115	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8116	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8117	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8118	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8119	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8120	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8121	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8122	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8123	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8124	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8125	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8126	1-216-815-11	RES-CHIP	330	5%	1/16W
R8127	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R8128	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8129	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8130	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R8131	1-216-815-11	RES-CHIP	330	5%	1/16W
R8132	1-216-815-11	RES-CHIP	330	5%	1/16W
R8133	1-216-815-11	RES-CHIP	330	5%	1/16W
R8136	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8137	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8138	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8139	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8140	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8141	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8142	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R8143	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8144	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8145	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8146	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R8149	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R8150	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8153	1-216-295-91	SHORT	0		
R8154	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8155	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R8158	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R8159	1-216-295-91	SHORT	0		
R8160	1-216-295-91	SHORT	0		
R8161	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R8162	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8163	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8164	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8165	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8168	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8169	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8170	1-216-815-11	RES-CHIP	330	5%	1/16W
R8171	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8174	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8175	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
R8176	1-216-838-11	RES-CHIP	27K	5%	1/16W
R8177	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R8179	1-216-295-91	SHORT	0		
R8180	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8181	1-216-295-91	SHORT	0		
R8182	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8183	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8186	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8188	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8189	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R8190	1-216-825-11	RES-CHIP	2.2K	5%	1/16W

D **H1**

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8191	1-215-925-11	METAL OXIDE	22K	5%	3W
R8196	1-249-377-11	CARBON	0.47	5%	1/4W
R8197	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8203	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R8204	1-216-295-91	SHORT	0		
R8205	1-216-295-91	SHORT	0		
R8206	1-216-849-11	RES-CHIP	220K	5%	1/16W
R8207	1-216-846-11	RES-CHIP	120K	5%	1/16W
R8209	1-216-295-91	SHORT	0		
R8210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8211	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8215	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8216	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R8217	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8219	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8220	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8221	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8223	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
R8224	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8456	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8457	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8458	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8459	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8800	1-247-895-91	CARBON	470K	5%	1/4W
R8804	1-249-408-11	CARBON	180	5%	1/4W
R8805	1-249-408-11	CARBON	180	5%	1/4W
R8806	1-249-411-11	CARBON	330	5%	1/4W
R8807	1-249-411-11	CARBON	330	5%	1/4W
R8808	1-260-340-11	CARBON	10K	5%	1/2W
R8809	1-260-340-11	CARBON	10K	5%	1/2W
R8810	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8811	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R8812	1-216-461-00	METAL OXIDE	5.6K	5%	2W
R8813	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8814	1-215-880-00	METAL OXIDE	10	5%	2W
R8815	1-215-880-00	METAL OXIDE	10	5%	2W
R8816	1-216-365-00	METAL OXIDE	0.47	5%	2W
R8817	1-216-361-00	METAL OXIDE	0.22	5%	2W
R8818	1-249-405-11	CARBON	100	5%	1/4W
R8819	1-247-807-31	CARBON	100	5%	1/4W
R8831	1-260-124-11	CARBON	120K	5%	1/2W
R8833	1-202-972-61	FUSIBLE	1	5%	1/4W
R8834	1-260-288-11	CARBON	0.47	5%	1/2W
R8835	1-260-288-11	CARBON	0.47	5%	1/2W
R8836	1-249-432-11	CARBON	18K	5%	1/4W
R8837	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8838	1-214-905-11	METAL	47K	1%	1/2W
R8839	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8840	1-247-843-11	CARBON	3.3K	5%	1/4W
R8842	1-260-123-11	CARBON	100K	5%	1/2W
R8843	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8844	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8845	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8851	1-260-123-11	CARBON	100K	5%	1/2W
R8852	1-260-123-11	CARBON	100K	5%	1/2W
R8853	1-260-123-11	CARBON	100K	5%	1/2W
R8854	1-249-425-11	CARBON	4.7K	5%	1/4W
R8856	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8857	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8858	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8859	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8865	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8866	1-216-295-91	SHORT	0		
R8867	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8869	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8870	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8886	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R8887	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8888	1-249-441-11	CARBON	100K	5%	1/4W
R8895	1-249-443-11	CARBON	0.47	5%	1/4W
R8896	1-249-443-11	CARBON	0.47	5%	1/4W
R8897	1-215-485-00	METAL	470K	1%	1/4W
R8898	1-215-493-00	METAL	1M	1%	1/4W
R8899	1-215-493-00	METAL	1M	1%	1/4W

< TRANSFORMER >

T8800	⚠	8-598-851-50	FBT ASSY NX-4522//Z
T8801		1-437-430-11	TRANSFORMER, FERRITE (HDT)
T8802		1-437-430-11	TRANSFORMER, FERRITE (HDT)
T8852		1-433-487-11	TRANSFORMER, FERRITE (DFT)

* A-1646-243-A MOUNTED PC BOARD, H1

4-206-220-01 HOLDER, LED

< CAPACITOR >

C0992	1-104-665-11	ELECT	100UF	20.00% 25V
C0993	1-102-114-00	CERAMIC	470PF	10.00% 50V
C0994	1-102-129-00	CERAMIC	0.01UF	10.00% 50V

< CONNECTOR >

CN0991	*	1-564-507-11	PLUG, CONNECTOR 4P

< DIODE >

D0991	8-719-109-89	DIODE MTZJ-T-77-5.6B
D0993	8-719-082-12	DIODE TLHK5190

REF.NO.	PART.NO	DESCRIPTION			REMARK
		< IC >			
IC0991	8-742-180-30	HYB IC SBX3081-51(20)			
		< RESISTOR >			
R0992	1-247-807-31	CARBON	100	5%	1/4W

* A-1647-043-A MOUNTED PC BOARD, H2

		< CAPACITOR >			
C2906	1-126-960-11	ELECT	1UF	20.00%	50V
C2907	1-126-960-11	ELECT	1UF	20.00%	50V
C2913	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2914	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
		< CONNECTOR >			
CN2900	1-779-947-11	TERMINAL BLOCK, S			
CN2906	* 1-564-524-11	PLUG, CONNECTOR 9P			
CN2908	1-564-521-11	PLUG, CONNECTOR 6P			
		< JACK >			
J2900	1-750-264-11	JACK			
		< COIL >			
L0904	1-410-119-11	INDUCTOR	1MH		
		< RESISTOR >			
R0901	1-249-427-11	CARBON	6.8K	5%	1/4W
R0902	1-215-445-00	METAL	10K	1%	1/4W
R0911	1-249-419-11	CARBON	1.5K	5%	1/4W
R0913	1-247-843-11	CARBON	3.3K	5%	1/4W
R0914	1-249-431-11	CARBON	15K	5%	1/4W
R2903	1-249-406-11	CARBON	120	5%	1/4W
R2904	1-249-406-11	CARBON	120	5%	1/4W
R2909	1-247-895-91	CARBON	470K	5%	1/4W
R2910	1-247-895-91	CARBON	470K	5%	1/4W
R2915	1-249-406-11	CARBON	120	5%	1/4W
R2916	1-249-406-11	CARBON	120	5%	1/4W
R2917	1-249-412-11	CARBON	390	5%	1/4W
R2918	1-249-412-11	CARBON	390	5%	1/4W
		< SWITCH >			
S0900	1-692-979-11	SWITCH, TACTILE			
S0901	1-692-979-11	SWITCH, TACTILE			
S0902	1-692-979-11	SWITCH, TACTILE			

* A-1644-119-A MOUNTED PC BOARD, VM

	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C7401	1-126-935-11	ELECT	470UF	20.00%	16V
C7403	1-126-935-11	ELECT	470UF	20.00%	6.3V
C7404	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C7405	1-126-933-11	ELECT	100UF	20.00%	16V
C7406	1-126-935-11	ELECT	470UF	20.00%	6.3V
C7407	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7408	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7409	1-107-649-11	ELECT	2.2UF	20.00%	250V
C7410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7412	1-126-935-11	ELECT	470UF	20.00%	16V
C7413	1-126-935-11	ELECT	470UF	20.00%	16V
C7414	1-107-652-11	ELECT	10UF	20.00%	250V
C7415	1-107-363-91	MYLAR	0.0068UF	10.00%	200V
C7418	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7421	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
		< CONNECTOR >			
CN7442	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN7443	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7444	* 1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
		< DIODE >			
D7400	8-719-991-33	DIODE 1SS133T-77			
D7401	8-719-991-33	DIODE 1SS133T-77			
D7403	8-719-991-33	DIODE 1SS133T-77			
D7404	8-719-991-33	DIODE 1SS133T-77			
D7405	8-719-924-11	DIODE MTZJ-T-77-22			
D7406	8-719-924-11	DIODE MTZJ-T-77-22			
		< COIL >			
L7400	1-414-934-21	INDUCTOR	10UH		
L7402	1-414-934-21	INDUCTOR	10UH		
L7403	1-414-934-21	INDUCTOR	10UH		
		< TRANSISTOR >			
Q7400	8-729-010-29	TRANSISTOR MSD601-RST1			
Q7401	8-729-010-29	TRANSISTOR MSD601-RST1			
Q7402	8-729-010-29	TRANSISTOR MSD601-RST1			
Q7403	8-729-119-78	TRANSISTOR 2SC1740S-RT			
Q7404	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R			
Q7405	8-729-026-39	TRANSISTOR 2SA933AS-RT			
Q7406	8-729-045-05	TRANSISTOR 2SA2005			
Q7407	8-729-045-04	TRANSISTOR 2SC5511			

VM

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
Q7408	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R			
Q7409	8-729-010-29	TRANSISTOR MSD601-RST1			
		< RESISTOR >			
R7400	1-216-017-91	RES-CHIP	47	5%	1/10W
R7401	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R7402	1-216-041-00	RES-CHIP	470	5%	1/10W
R7403	1-249-393-11	CARBON	10	5%	1/4W
R7404	1-249-413-11	CARBON	470	5%	1/4W
R7405	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7407	1-249-411-11	CARBON	330	5%	1/4W
R7409	1-216-029-00	RES-CHIP	150	5%	1/10W
R7410	1-216-017-91	RES-CHIP	47	5%	1/10W
R7411	1-216-017-91	RES-CHIP	47	5%	1/10W
R7412	1-216-017-91	RES-CHIP	47	5%	1/10W
R7413	1-249-414-11	CARBON	560	5%	1/4W
R7414	1-249-432-11	CARBON	18K	5%	1/4W
R7415	1-247-739-11	CARBON	100	5%	1/2W
R7416	1-249-389-11	CARBON	4.7	5%	1/4W
R7417	1-249-432-11	CARBON	18K	5%	1/4W
R7418	1-249-414-11	CARBON	560	5%	1/4W
R7419	1-249-421-11	CARBON	2.2K	5%	1/4W
R7420	1-249-421-11	CARBON	2.2K	5%	1/4W
R7421	1-249-389-11	CARBON	4.7	5%	1/4W
R7422	1-249-405-11	CARBON	100	5%	1/4W
R7423	1-215-915-11	METAL OXIDE	470	5%	3W
R7427	1-216-025-11	RES-CHIP	100	5%	1/10W
R7428	1-216-033-00	RES-CHIP	220	5%	1/10W
R7429	1-216-033-00	RES-CHIP	220	5%	1/10W
R7432	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7433	1-249-395-11	CARBON	15	5%	1/4W
R7434	1-249-395-11	CARBON	15	5%	1/4W
R7435	1-216-033-00	RES-CHIP	220	5%	1/10W
R7436	1-216-049-11	RES-CHIP	1K	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS			
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
⚠	1-823-853-11	CORD, POWER	
	1-424-855-11	COIL, CHOKE	
	8-598-533-01	FRONT END BTF-EC411	
⚠	1-453-340-31	FBT ASSY NX-4522//Z2B4	
	1-529-417-11	SPEAKER (8CM)	
	1-529-408-11	SPEAKER (4.2x24CM)	
⚠	8-735-053-05	PICTURE TUBE (M68LNH060X)	
	8-451-504-31	DEFLECTION YOKE (Y29RSC-S)	
	1-452-896-11	COIL, NA ROTATION (RT-200)	
⚠	1-424-887-11	COIL, DEGAUSSING	
	8-453-011-11	NECK ASSY, (NA299-M)	
⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	1-452-032-00	MAGNET, DISK; 10MM	
ACCESSORIES AND PACKAGING MATERIALS			
	*4-029-168-01	BAG, PROTECTION	
	*4-205-494-01	INDIVIDUAL CARTON	
	4-087-257-21	INSTRUCTION MANUAL (GERMAN)	
REMOTE COMMANDER			
	1-476-702-11	REMOTE COMMANDER (RM-932)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.

The TRACE interface connects to the PC's serial port. It provides connection to the TV's I^2C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

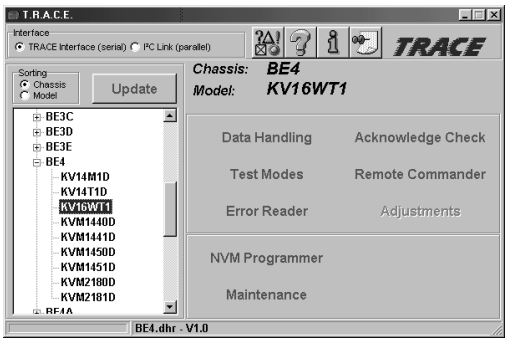
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I^2C bus
- Acknowledge check of all I^2C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I^2C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers:

TRACE Starter Kit (TRACE interface + software):	9-948-320-70
TRACE Software (for users of the I^2C Link interface):	9-948-340-80
TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

9-927-413-01

Sony Corporation
Sony UK
Service Promotions Dept.

English
01LP7100-1
Printed in U.K.
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